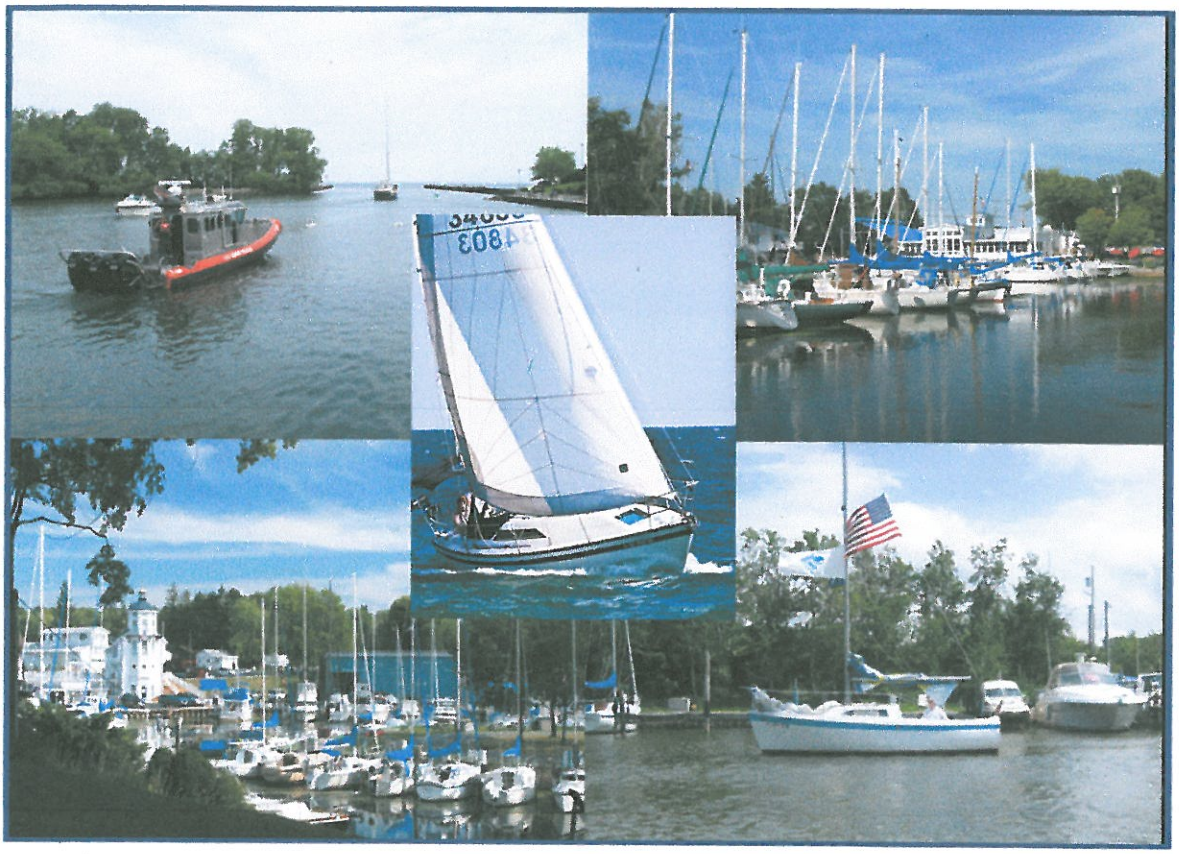


Town of Wilson Harbor Revitalization Project

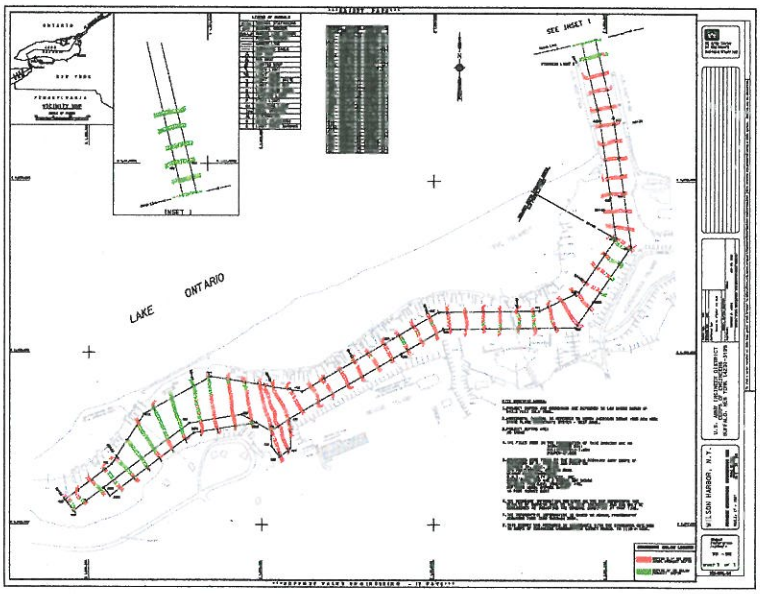
By Joseph Jastrzemski, Town Supervisor

Prepared for:
Niagara River Greenway Commission

July 17, 2012

1. Project Overview

As seen in the US Army Corps chart soundings illustration below, Wilson Harbor is in critical need of dredging in order for infrastructure to be placed. For the first time in a generation, conditions are such that boats are limited in access to the harbor due to low water conditions. The first phase of this project will support the required sediment sampling and lab testing necessary to obtain regulatory permits to dredge Wilson Harbor and enable development to reverse the negative impact on the regional economy. Key stakeholders (Town of Wilson, marina owners/managers, yacht clubs and area businesses) have closely consulted with an engineering company who has consulted very closely with the US Army Corp of Engineers (USACE) and NYS DEC to determine costs and protocol in completing this key first step in harbor revitalization.



An engineering plan, including sample collection and analysis in order to guide contract bidding is the key dependency upon which all future proposals will be based. It will enable docks, day slips, moorings etc. to be responsibly built to accommodate the recreational and sport fishing industry, and re-establish Wilson as an international destination harbor of choice on Lake Ontario. Matching funds for this stage of the project have been submitted to the NYS Department of State, and when combined, this effort will well-position this project for Federal Harbor Maintenance Trust Funds through the USACE for phase two of the project.

Considerable discussion ensued between the Town of Wilson and key stakeholders on how to scope this funding request. Many were in favor of an all-encompassing plan that included identification and assumptions for funds to develop a project timeline that included long-term project completion (including dredging and infrastructure improvements). After examining a number of options, it was concluded that this project proposal should focus on all the elements required to responsibly and prudently move forward with a plan that facilitates dredging and infrastructure in a subsequent funding request after costs are determined as the result of completing this project. The stakeholders are aware that this is an unusual approach for Greenway Funding requests, but given that preliminary estimates for the full project have

ranged from $755,000 to two million dollars (or more) depending on the test outcomes, the only prudent path is to work closely with the regulatory agencies and conduct the testing as the current project at this time.

2. Advancing the Niagara River Greenway Plan Vision

Wilson Harbor is the largest naturally protected harbor on the southern shore of Lake Ontario; home port to over 500 boats distributed among three yacht clubs and four marinas. New York State Tuscarora Park flanks the western end of the channel with a ramp that averages over 2,000 launches each season and also hosts a U.S. Customs Port-of-Entry. The eastern end shelters Tuscarora Yacht Club and the popular Boat House restaurant/marina and small boutique shops along a boardwalk. Mid-harbor features Moyer Marina, the member-owned and operated Wilson Yacht Club, and Sunset Bay Grille, sporting a recently renovated outdoor patio and band stage. The southwest end houses Sunset Bay Marina, the Island Yacht Club and a few private residences. Boaters and the public routinely enjoy live music emanating from both ends of the harbor several times weekly during the peak season, often while hosting friends and visitors for drinks and/or a meal.

Long considered a jewel among charter and sport fishing enthusiasts, anglers from Pennsylvania, Ohio, West Virginia, and several other surrounding states routinely travel to the Niagara Frontier, Wilson, Olcott and Oak Orchard regions, where sport fishing has an estimated $30 million dollar annual impact. The Wilson Boathouse marina estimates a single fishing tournament weekend to have a $300,000 impact on their business alone. Local convenience and grocery owners (T&R's, IGA) also report significant revenue boosts during tournaments and major harbor-related activities (to say nothing of area restaurants, bars and a new hardware store).

Perhaps most importantly, Wilson Harbor is classified as an international harbor of refuge for any vessel in distress and need of assistance on Lake Ontario regardless of flag origin. Regrettably, the harbor has steadily fallen into a state of neglect as the result of natural silting effects and lack of (what was considered a decade ago to be) routine dredging. Natural silting has now reached a critical state that threatens water-only access for the approximately 1,000+ visitors to the multiple restaurants and small businesses that depend on revenue generated in less than three months to remain viable.

Negative trends are emerging. Boats are having increasing difficulty accessing launch areas, waste management and fuel access at the harbor is silting in. Boaters who would normally end their season in October or November have been forced to haul out in August and September due to low-water conditions. One marina owner reports a 20% loss of sailboats over the past two years. Canadian boats can no longer access major boat yard maintenance during the off-season, an estimated loss of $100-200,000 per year for just one marina (as well as a significant source of tax revenue).

In order to restore and grow this natural asset, we must break out and complete the project for testing as required by the USACE and DEC, then proceed with known costs to encourage private investment that has been stifled lacking this very important preliminary project. Once complete, provisions for additional slips, day docks, mooring areas in addition to taking

advantage of already existing assets such as water-based harbor kayak trails, walking access to area stores, restaurants and entertainment, and more broadly - creating opportunity to link international visitors to our growing regional wine trail as part of Greenway development.

3. Principles

Accessibility – as part of the Seaway Trail, Wilson Harbor serves as a major recreational port on the Southern Shores of Lake Ontario as well as a critical harbor of refuge. As the supplemental slides support, we are in danger of losing visitors with a growing reputation that it's "too difficult" to access Wilson Harbor.

Ecological Integrity – this is the key to our funding request. We are restricted from moving forward with related plans until the regulatory requirements are met to ensure that infrastructure can be placed. This project pays for all of the work required for sediment sampling and engineering in order to take the next phase to bid.

Public Well-Being – Water access for fishing, boating and day/overnight trips is how people like to spend their time. There are recreational opportunities for people of all income levels in this harbor. There is clear interdependency between local investment and public investment to support the Harbor economy. With three very popular harbor restaurants, retail shops and marine support – Wilson is a destination of choice for thousands of people each spring, summer and fall.

Community Based - There is uniform support for revitalizing the harbor in a planned, logical manner from all of the key elected officials and stakeholders (yacht clubs, marinas, retail and restaurant owners). A small "Commodore's Coalition" was formed to organize efforts around supporting development and reversing some of the economic trends beginning to emerge.

Goals:

Improve access and encourage additional investment. Once boaters and locals choose to visit the harbor, they access fishing, kayaking and walking trails. To maintain and improve access to these natural and engineered environments, we need to facilitate dredging. The costs are unknown until the sediment project is complete. This project is the key dependency that will allow all other investment to proceed.

Make connections as demonstrated in the resource materials, the Greenway trails are becoming more interconnected, with a goal of ultimate goal of leveraging the wine trail. None of these can be effectively marketed until confidence is restored that access to the harbor will be unimpeded by low water conditions.

Protect Environmental Systems – Many residents have long memories of when the Lake was full of seaweed and populated with dead fish. The harbor nearly became a liability rather than a gem in the early 70's. Although regulations are sometimes challenging to comply with, the long-term benefits and rewards are clear today with clear water and a harbor that is an enviable destination. In order to maintain this environment, we must complete the sediment testing project before any further development can be reasonably assessed, cost analyzed and permitted.

Celebrate History and Heritage – Harbor access enables visitors access to Wilson and additional assets in the village such as the historical society, Greenway Cemetery, Veterans Memorial Park and the New York State Tuscarora Park, including the long established path of cattails and water trails in the east branch of 12 mile creek (of which Wilson Harbor is a part).

Priority Status – Discussions have been in the works for several years about how to further development in the harbor region. All roads lead back to satisfying the regulatory agencies through sediment testing and analysis in order determine infrastructure placement. Regulatory agencies have helped us understand that this is the dependency upon which all other project implementation rests.

Focus Area- This project will have a significant impact of preserving and continuing growth in the Harbor Region, by enabling expansion of services coupled to access (even in lower water conditions once dredging has taken place).

Environmental Soundness – This is the key focus of this project. It is to further "smart growth" while being proven as environmental friendly. The sediment testing and engineering project will end any future debate about what can be considered for dock placement and mooring access.

Implementable – Significant time has been invested in the preliminary engineering proposal in order to ensure alignment with the regulatory agencies (USACE, DEC). The representatives from these agencies have effectively provided a "green light" to the protocol as outlined in the attached engineering narrative. This will prevent any delay of project implementation and ensure future transferability of outcomes.

Clear Benefits – This project will provide the foundation for future projects to continue with harbor revitalization. The only responsible way forward is to complete this required project in order to narrow the estimates for future work to expand access.

4. Budget

Please see the complete engineering narrative for budget and timeline details. This work is contractual in nature. The action required for this phase is sampling and sediment analysis that can begin as early as September 2012 pending funding.

$87,500 New York State LWRP 50% match request
$87,500 Greenway Request
$17,742 In-kind effort (engineering, materials, supplies and administration)

$175,000 Total Project Cost

5. Community and Government Support

Wilson is a small community that facilitates rapid communication among key stakeholders. An email list has been established that links the "Commodores Coalition" (key stakeholders) of all local yachts clubs, marina owners and operators as well as elected officials at the village, town, county and state levels and business owners within the harbor region. Regular contact is made with state and federal regulators and representatives (NYS Dept. of Environment and

Conservation - Region 9), US Army Corp of Engineers and NYS Dept. of State. This communication has long been necessary to maintain permits for maintenance of local properties (e.g. bulkhead construction and soil conservation), but has more recently been galvanized by the mutual needs for dredging.

The community has expressed support for the harbor region directly through participation in local events connected to harbor assets (sport fishing, marathon activity and holiday celebrations) as well as general patronage at restaurants adjacent to the harbors. Without local support of these businesses, the harbor could not be sustained, and likewise the reverse is true. It is an inter-dependent economy where area businesses have only 12 weeks to "make or break" their bottom line each season. In any recent memory (past 40 years), there has been no public resistance to dredging as a practice. More robust communication in the form of public hearings or town halls may be required and executed in future phases once we're working with known parameters as the result of this testing to guide planning, but there is no history or evidence of anything other than full support of the community - a rare occurrence indeed!

In addition to the community in general, this project has the support of all levels of government: local, county, state and federal representatives support this initiative, as do clearly the regulatory branches.

6. Existing Conditions and Project Implementation

US Army Corp of Engineers (USACE) currently estimates the sediment backlog in Wilson Harbor to be 55,000 Cubic Yards (CY) of material. USACE historically has dredged Wilson Harbor approximately every 3-5 years. More than 12 years has now passed since the last dredge. Under normal water level "swings" (roughly within 4' of mean water average), normal sedimentation slowly accumulates and has now grown to the point where it's had a negative impact on the boating season over the past several years - shortening the amount of time (and money) spent in the harbor region. Meanwhile, the International Joint Commission (IJC) proposed BV7 water level management changes (by their own data projections) may dramatically increase these water level swings (and frequency) exacerbating the sedimentation issue. USACE has suggested that if we dredge the additional one foot of allowable sediment, this potentially increases the need to around 80,000 CY of material INSIDE the federal channel alone. This does not sediment that must be privately removed by marinas, yacht clubs and private residents just to gain access to the federal channel, which is the critical economic driver. In order to develop a longer term plan with known or estimated costs, we must first conduct sediment sampling and create a plan based on the results. Wilson is now at a critical stage where the economy needs the harbor, but private development and partnerships can't effectively proceed until the regulatory parameters are defined. Until this issue is settled (the cost of open water disposal vs. land disposal) and where future structures may be built - everything is at a stand still while sedimentation conditions choke normal harbor traffic (and surrounding economy). Please refer to the appendix photos documenting low water conditions at the start of the 2012 boating season and the complete engineering narrative that describes how the sediment testing and analysis will enable corrective action to take place.

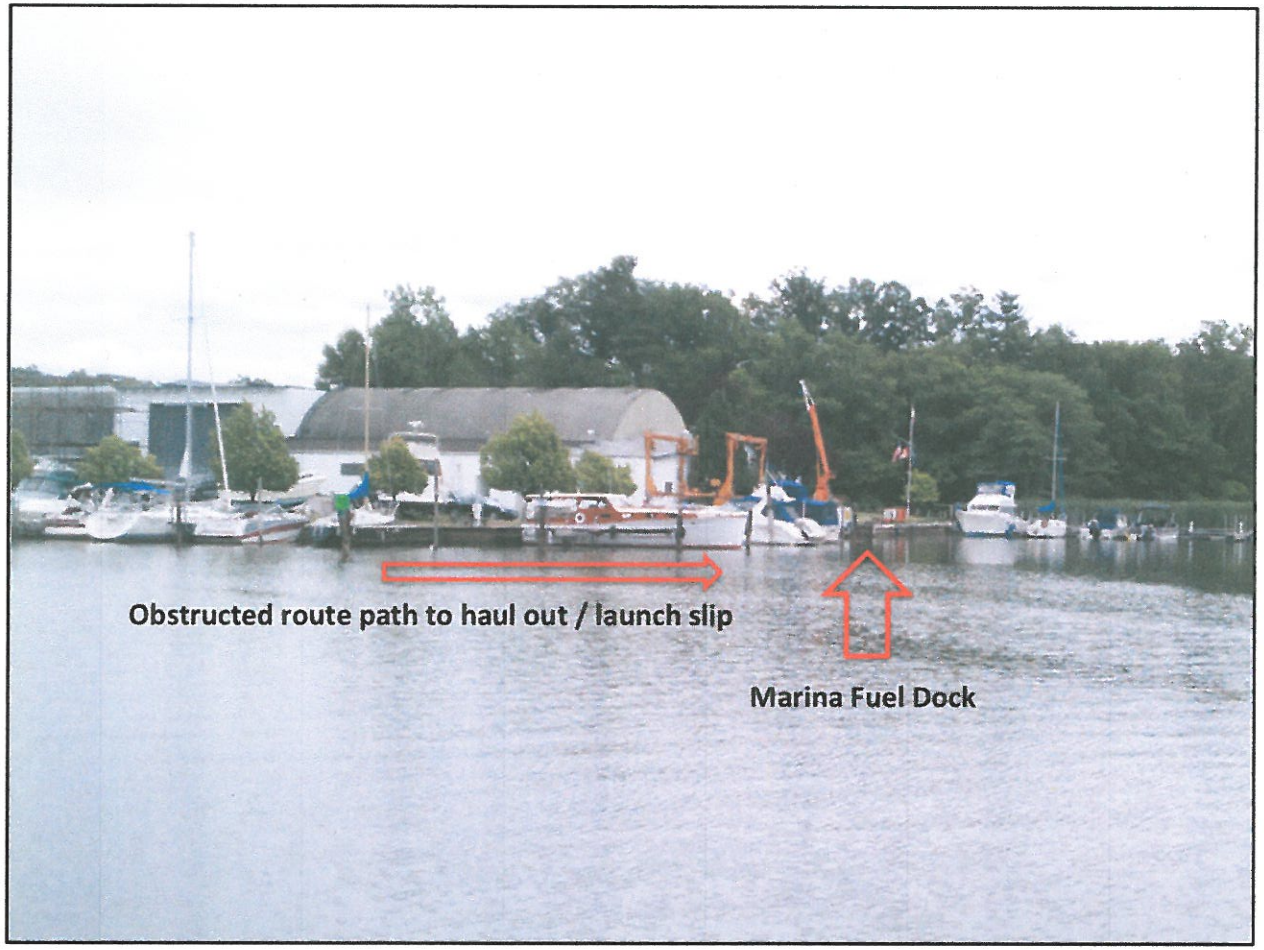
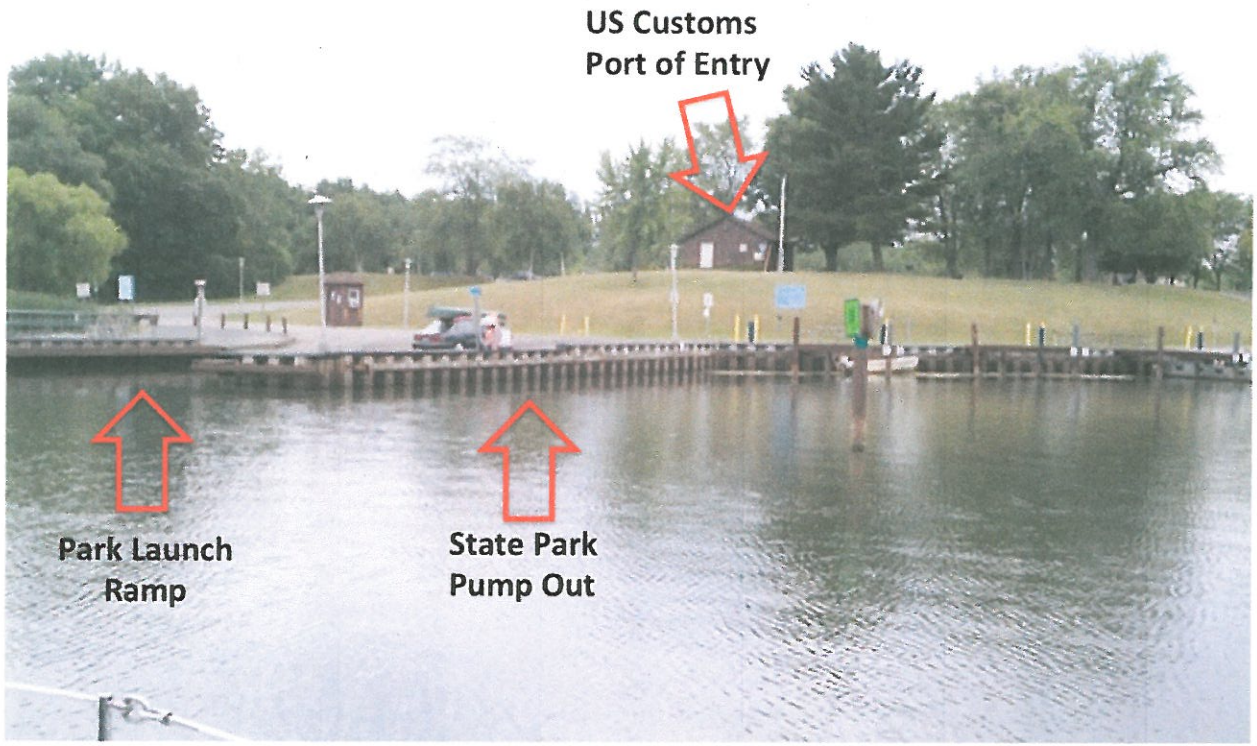
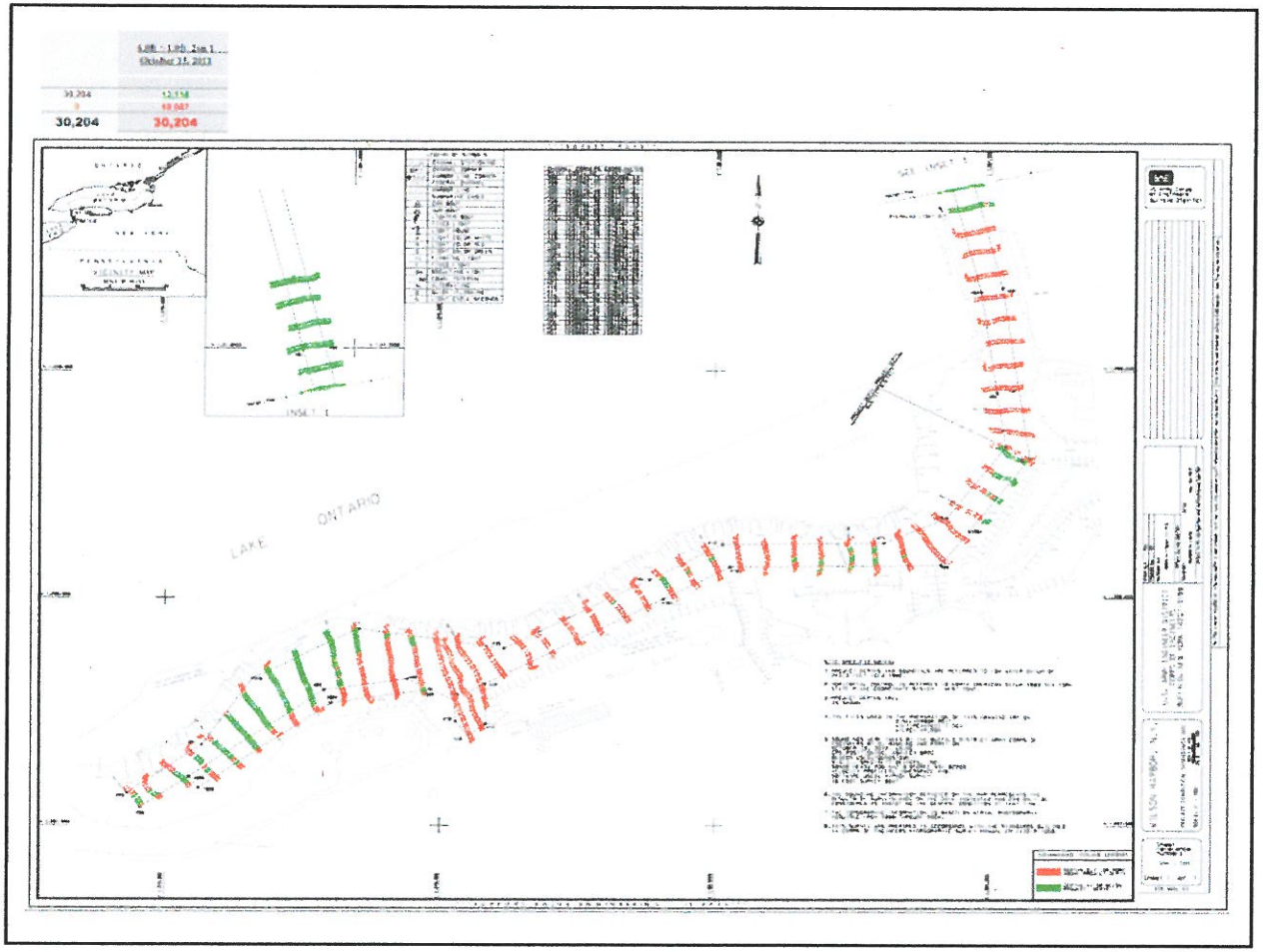


Illustration of typical path to launch/haul-out and fueling dock at the Western end of the harbor. Access is becoming highly restricted and silted, requiring many boats to leave Wilson to accommodate drafts deeper than 5'6".



A quick camera pan to the right shows the NYS Tuscarora Park. Boats are having an increasingly difficult time accessing sanitary pumpouts located at the State Park end of the channel, and it's even more difficult accessing the pumpout at TYC at the harbor entrance with current silting conditions. We are now concerned about anecdotal reports of open sewage lake dumping.



US Army Corp 2011 chart soundings indicate nearly the entire harbor is below specified depth. Would requires 18,000 CY to clear a path, with an additional 12,000 CY removed to provide for 7' of in-channel depth at mean water level. To completely dredge the harbor to USACE spec the backlog is 55,000 CY + the additional 12,000CY for depth overage. None of these estimates include dredging required by clubs and marinas to gain access to the channel.

Dangerously Low Water in channel – June 24, 2012 – behind slips at Sunset Marina

Readings transiting eastward direction down the harbor length parallel to Sunset Bay Marina (behind the slips, but still inside the channel markings on 6/24/12). Local depth reading indicates 4.8' (normally reads 6-7' at the start of the season in this area).

High Water - Very typical for "start of season" activities.

Illustration of typical high water levels for May/June at the start of the season (Photo taken May, 2010 – west end of Wilson Yacht Club, Treasure Island). The retaining wall was engineered to a height to accommodate long term trends.

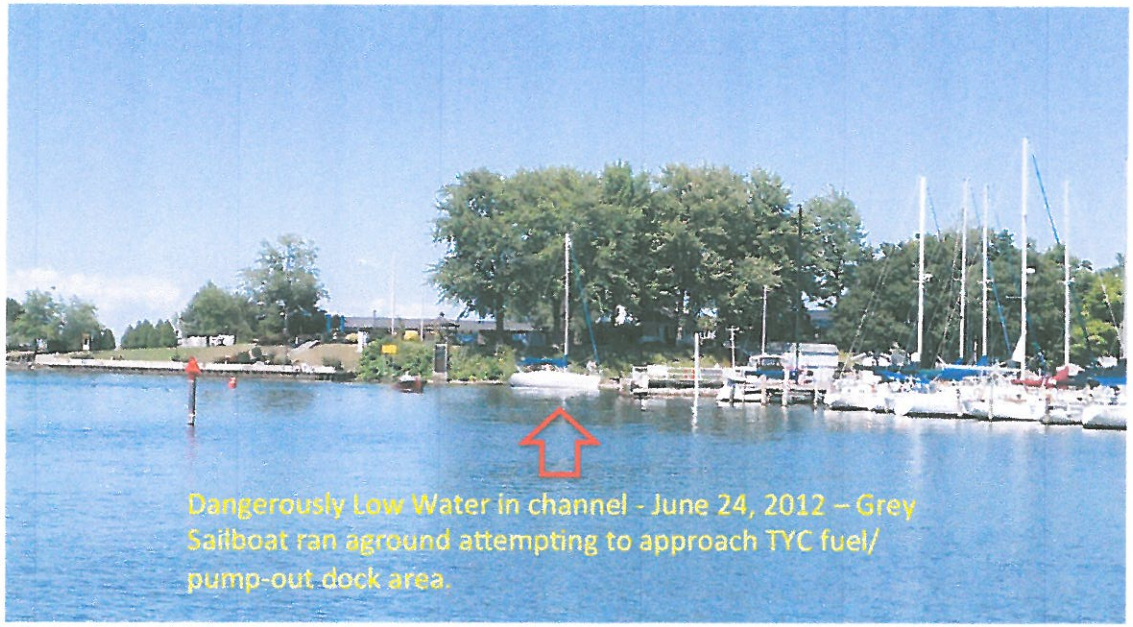
Low Water – June 24, 2012. Unusually low, more typical of September.

Current Conditions – nearly 2' below normal seasonal levels (photo taken on 6/24/12- Eastern end of Wilson Yacht Club). If typical evaporation and IJC water level management conditions and trends remain constant, this will lead to season-ending conditions for an estimated one-third to one-half of all boats in the harbor over 30' by late July/ early August.

Dangerously Low Water in channel – June 24, 2012 – Harbor entrance

Entering the harbor entrance transiting south approximately half way down the channel on 6/24/12. Depth indicates 5.8', which would normally read between 10-11' at season start between the piers)

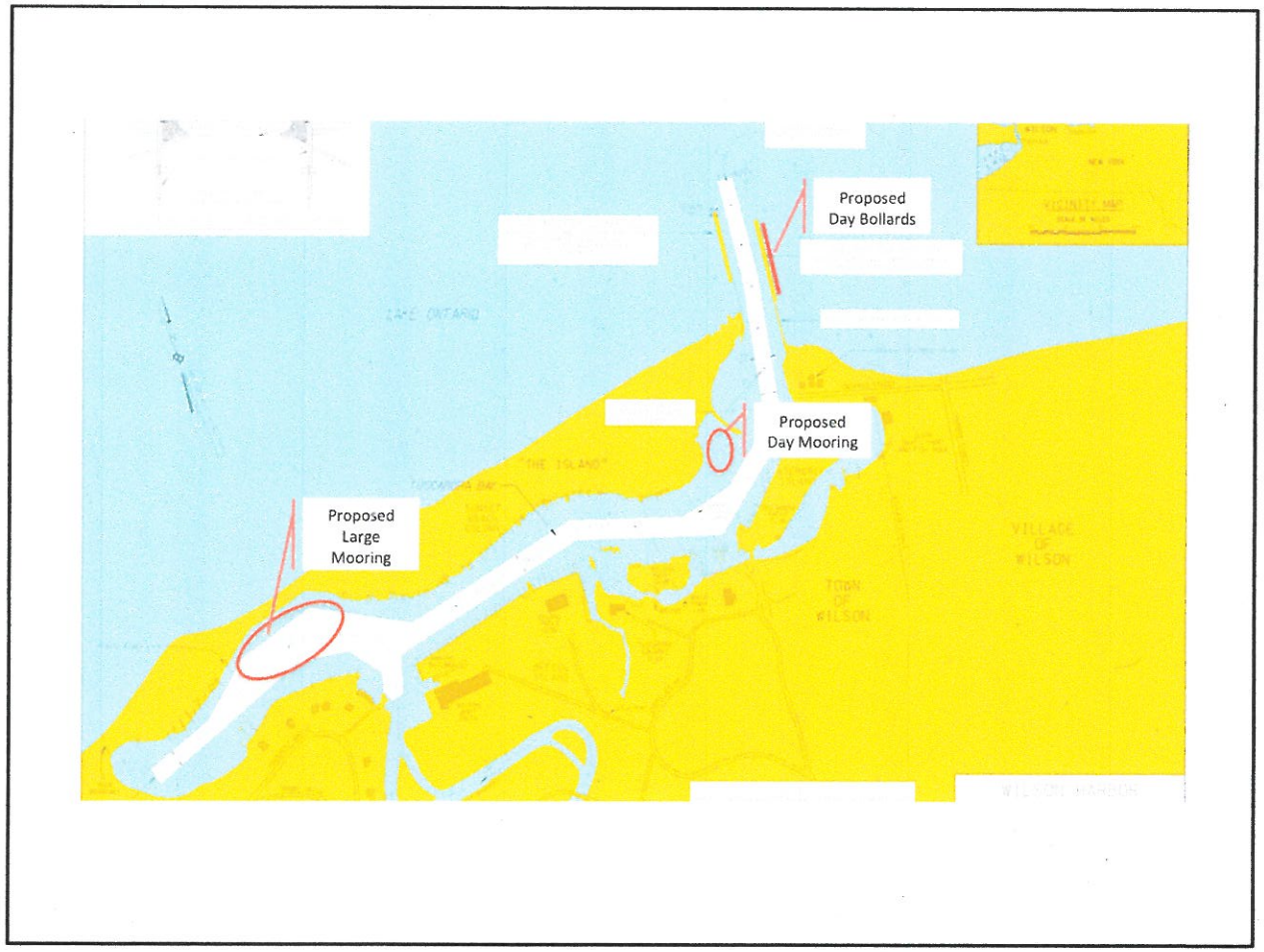
Empty slips that used to be occupied by deeper draft power boats and sailboats (now mooring in Rochester). Notice the white power stanchions have no resident power cords hanging off of them, nor stern poles with seasonal lines attached (supporting that these are not empty slips that can be attributed to a day trip).



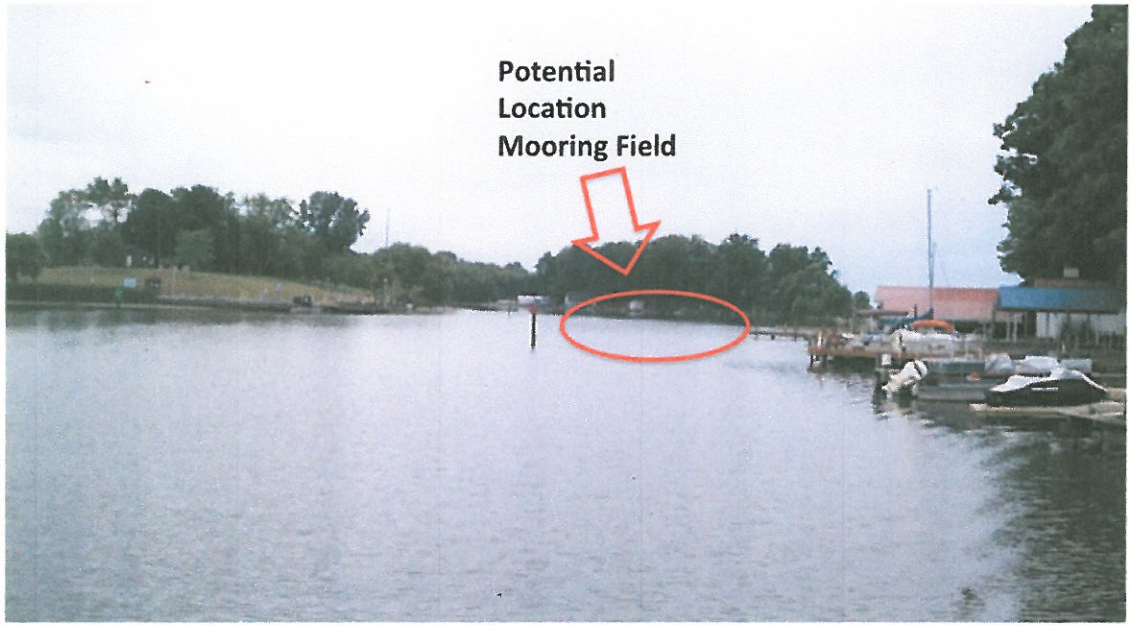
We can not underscore strongly enough how situations like the photograph above ruin the reputation of a harbor, and it takes years to rebuild. This visitor is likely to share with his home port friends to avoid trying to get into Wilson (which has a cascading effect). This during a time when the local businesses have become very attractive to exactly this kind of visitor for their food and entertainment value! (

Dangerously low water in channel – October, 2011 – 54' powerboat seeking refuge and assistance from USCG ran aground attempting to approach TYC fuel/pump-out.

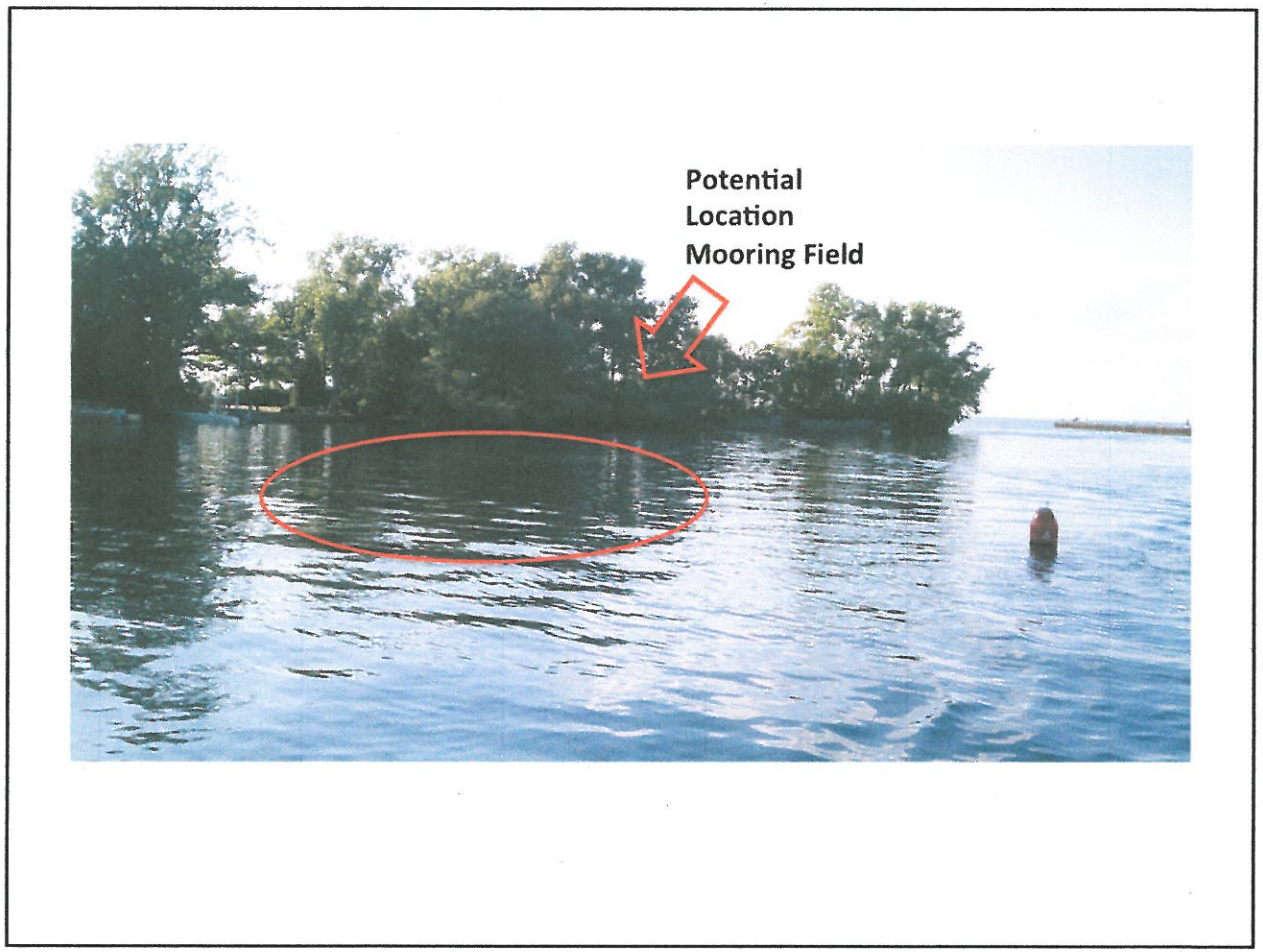
This boat was stuck on the rocks for 10 hours before eventually being hauled off and taken to the Sunset Bay boat yard to be inspected for hull damage. Sadly, the captain also ran aground two more times exiting the harbor days later. It's important to remember that boaters who were willing to weather the cold used to have the option of extending the season (thus supporting local business) well into November when the harbor was well maintained).



In addition to dredging, local research has indicated that boaters are seeking easier "day dock" access to restaurants and entertainment. This will attract sailboats from Youngstown and Olcott for several hours, and powerboats from the western end of the lake who will enter the harbor for dinner and then return to home port. If funding is available, it's been strongly suggested that we include an infrastructure revitalization plan to accommodate "day dock" mooring and tie ups on the east pier (similar to towns of Port Dalhousie and Youngstown).



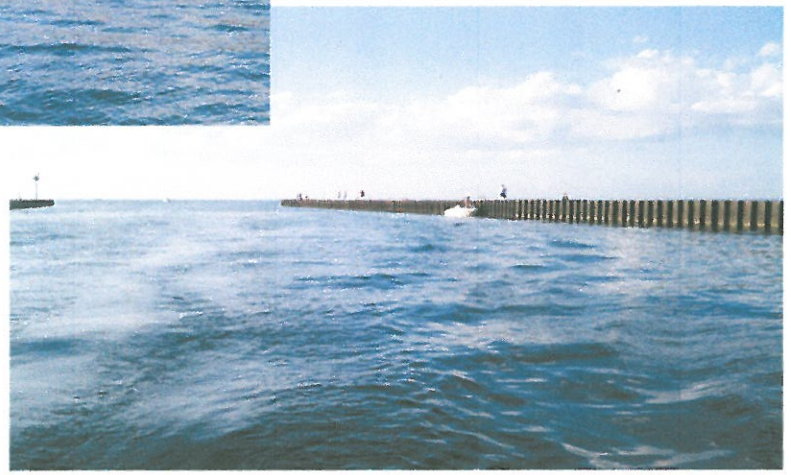
Once dredged, planning should include harbor infrastructure improvements such as a mooring ball field within the existing anchorage area by the State Park, and within-harbor visitor pick up (similar to Youngstown) and day-dock upgrades to the east end pier (similar to Port Dalhousie and Youngstown) to facilitate more visitor traffic to shore.



Entering the harbor, a source of "day dock" mooring could potentially be anchored balls nestled into the north west corner of the entrance across from the "Y" leading to the Boat House restaurant.

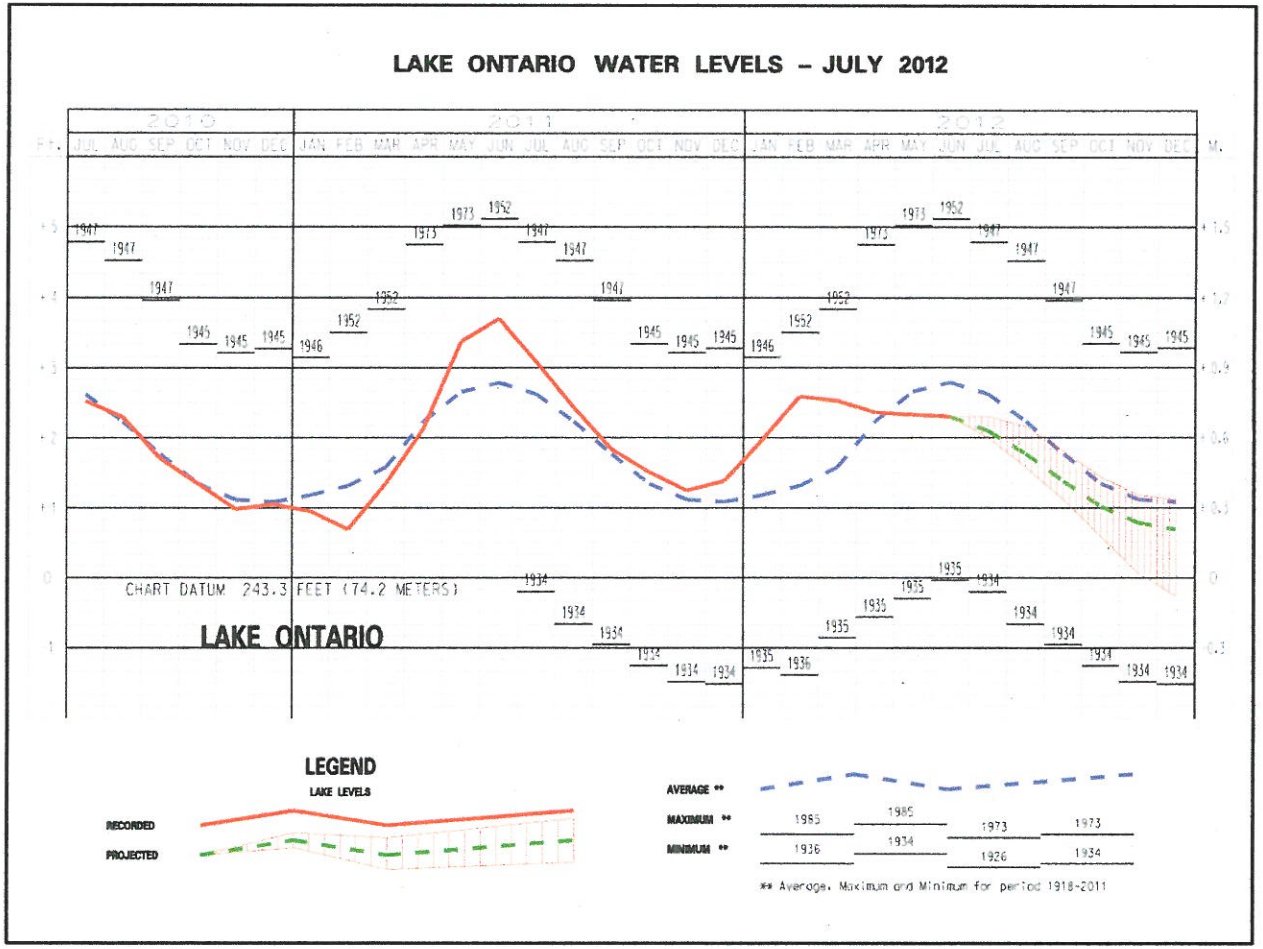
Potential Location public bollards similar to what is available in Port Dalhousie and Youngstown

Port Dalhousie Public Access



Plenty of room to dock on either side of the wall at owners risk (if policy allows)

Entering the harbor, a source of "day dock" mooring could potentially be anchored balls nestled into the north west corner of the entrance across from the "Y" leading to the Boat House restaurant.



Current forecast and historical levels (search USACE lake levels, and go to Lake Ontario). Indicates the need for dredging to counter the low levels.

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WILSON HARBOR DREDGING INITIATIVE

WORK PROGRAM

INTRODUCTION

Wilson Harbor is an important element of the local and regional economy in Upstate New York; however, over the past twelve years since the most recent dredging project, sedimentation and shoaling of the harbor has significantly reduced its economic vitality. A group of government and private stakeholders has developed a plan to dredge the harbor and return it to it's former more productive state. Figure 1 shows the location of Wilson Harbor in the Regional perspective with respect to the Niagara Trail Wineries, the Erie Canal Water Trial and the Great Lakes Seaway Trail.

The planned dredging of Wilson Harbor is expected to require the removal of approximately 50,000 cubic yards of fine and coarse grained sediment. In the past, disposal of the sediments has taken place both in the open-lake disposal area approximately two miles off shore to the north, and on the land. The U.S. Army Corps of Engineers (USACE) has indicated the materials most recently dredged from the channel "have been borderline suitable" for open-lake disposal, suggesting that whole sediment and elutriate testing must be completed to ensure the dredged spoils are suitable for open-lake placement, particularly if dredging is to take place outside the Federal channel.

OBJECTIVES

The primary objectives of this work program are to complete the tasks required to accurately determine the scope and cost of dredging Wilson Harbor and managing the sediment spoils, and to prepare the engineering and bid documents required to award a contract and administer the dredging operation. The main deliverables include the environmental engineering studies and

reports, bid documents and permits described below to mobilize the dredging contractor to the site as soon as is practicable.

SCOPE OF WORK

A preliminary sediment sampling plan has been prepared in cooperation with the USACE and the New York State Department of Environmental Conservation (NYSDEC) for the purpose of preparing cost estimates for the initial phases of the dredging project. However, to prepare for the necessary dredging operation and retain a contractor, the following Scope of Work must be completed;

- Finalize the sediment sampling and analysis plan for approval by the USACE ;
- Obtain sediment and lake water samples;
- Complete a laboratory test program;
- Analyze data and characterize sediment quality;
- Prepare engineering and bid documents; and,
- Prepare permit applications and obtain permits.

The end result, or outcome of the above work efforts, will be that a coordinated and comprehensive program and plan that meets the requirements of the regulating bodies is made available, and a contractor is retained for the successful dredging of Wilson Harbor.

SEDIMENT SAMPLING AND ANALYSIS PLAN

The purpose of an effective and logical sampling plan is to predict and minimize the environmental impacts of the dredging operation. Because sediment quality dictates the ultimate handling and disposal of the sediment, sampling will determine whether the sediments can be disposed in the open-lake disposal area, or whether alternate handling is required. The sediment sampling plan must specify the type, number, location, and size of samples to be collected, and provide for procedures designed to assure samples are not altered, biased or contaminated. The plan must includes maps, figures, references, data quality objectives, equipment requirements,

quality assurance and quality control provisions, health and safety requirements and personnel qualifications.

Prior to sampling, historic information will be gathered on the sampling and dredging history for the harbor, as well as records of spills, the locations of past and current outfalls, sources of contamination, maps of the area, and the regional habitat/biota and their sensitivity to disturbance. In addition to gaining a detailed understanding of the area of interest, this information will identify potential pollutant sources that may require special attention.

The sampling plan will comply with the tiered approach established by the Inland Testing Manual (February, 1998) prepared by the U.S. Environmental Protection Agency (USEPA) and the USACE for sampling and testing protocol. Qualified laboratories have been identified and have provided detailed unit cost proposals for the laboratory analyses that may be required.

At this time three "management units" and three corresponding sample locations have been identified within the navigational channel. Six management units and six sample locations outside the channel but within the harbor cover the remaining area to be dredged. Four off shore open-lake reference sediment samples, and two samples at the designated open-lake disposal area are included in the sample array.

The sampling plan, sampling of sediment and lake water, chemical, physical, and biological laboratory testing, and preparation of a dredging and disposal plan will provide a detailed account of the dredging operation and disposal of sediments for the Wilson Harbor.

The main deliverables for this task include the Sampling Plan, the Quality Assurance Project Plan and the Standard Operating Procedures (SOPs) for the sampling effort.

SEDIMENT SAMPLING

Because of the high cost of sediment sampling and testing, this work will be completed in a series of logical steps, consistent with the tiered approach recommended in the Inland Testing Manual. Each sediment sample will represent a constructible and homogeneous management unit, defined as a "manageable, dredgeable unit of sediment which can be differentiated by

sampling and which can be separately dredged and disposed within a larger dredging area". Disposal area site water samples will be collected to prepare the elutriate samples.

Grab and core sediment samples will be collected. Grab samples will be collected from the disposal site and where sediment deposits in the dredge area are a foot or two in thickness. Core samples will be collected from the entire thickness of the sediment deposit to be dredged that are greater than two feet in thickness, or where there are known or suspected vertical trends in sediment physical or chemical properties. A small dredge sampler will be used for the grab samples, penetrating between one to 12 inches of the sediments. Vibracore sampling will be completed in the deeper sediments by driving a long continuous two to four inch diameter tube into the sediment using vibrating action. The vibracore sampler will be operated from a spud barge with a tripod or small derrick and winch to assist in raising and lowering the core.

Sediment samples will be placed into containers and stored at a temperature between 0°C and 6°C as rapidly after collection as possible. Containers will be filled to the top with the sample, leaving no head space. Sample containers will be identified and pre-labeled using a coding system developed for the project. Sample containers will be packaged for transport to the laboratory in a manner that maintains them at 4° C and protects them from breakage or spillage.

The deliverables for this task include the samples, sample records, routine daily reports and chain of custody forms.

LABORATORY TEST PROGRAM

Testing of each sediment sample will conform to the Tier II evaluation described by the Inland Testing Manual. If Tier II sample results suggest the presence of excess concentrations of toxic or bioaccumulative compounds, Tier III bio-assay testing, designed to assess the impact of contaminants in the dredged material on appropriately sensitive and benchmark organisms will help determine whether there is a potential for an unacceptable impact at the open-lake disposal

site.[1] Laboratory testing would be performed by TestAmerica and Aquatec Biological Sciences, Inc. (Aquatec) in compliance with the "Great Lakes Dredged Material Testing and Evaluation Manual". Elutriate testing for physical and chemical properties will be completed to examine the potential for impacts during open-lake sediment disposal operations for a suite of the contaminants of concern. Laboratory testing will include chemical analyses for organics, inorganics, PAHs, metals, PCBs, pesticides, TOC, and dioxins in the lake water, sediments, elutriate water, and elutriate sediments. Sediments will also be tested for physical properties including a grain size analysis, hydrometer, and specific gravity testing.

The testing required by Tier III will be performed in compliance with the "Great Lakes Dredged Material Testing and Evaluation Manual". Tier III bioassays will include water column toxicity tests and benthic toxicity tests to determine the acute toxicity of the contaminants in the dredged material. The water column toxicity tests will be performed on one invertebrate and one vertebrate species to determine the effects of spoils on water column organisms. The ten-day survival and growth tests (benthic toxicity tests) will be performed using *Chironomus tentans* and *Hyallela azteca* by exposing the organisms to the sediment from an elutriate test and chemically analyzing the tissues of the organisms after ten days. Additionally, 28-day benthic bioaccumulation tests compare concentrations of contaminants in an exposed organism's tissue (*Lumbriculus variegatus*) to accepted values issued by the Food and Drug Administration (FDA) or other concentration data.

The results of the bioassay testing will be compared to existing water quality standards to conclude whether the discharge of dredged material will generate above-reference toxicity or benthic bioaccumulation of contaminants and ultimately, support decisions regarding the ultimate location of sediment disposal.

Deliverables for this task include the analytical data summaries, and standard quality control reports as required by the federal Contract Laboratory Protocols.

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[1] USEPA and USACE. "Testing of Dredged Material Proposed for Discharge in Wasters of the U.S. - Testing Manual." *United States Environmental Protection Agency.* Feb. 1998.

ANALYZE DATA AND CHARACTERIZE SEDIMENT QUALITY

The review and summary of the Tier II laboratory analysis will focus on determining the potential contaminant effects of the dredging operation. The dredged spoil discharge must meet applicable water quality standards (WQS) for all contaminants of concern outside the mixing zone. Water column impact must be evaluated by toxicity testing in Tier III when there are contaminants of concern for which applicable WQS are not available or where interactive effects are of concern.

Based on past results, the Tier II testing is likely to demonstrate that the available WQS requirements will be met; however, it is possible that further testing must be completed in Tier III. If needed, the results of the Tier III evaluation will conclude either that the discharge of the spoils is predicted not to result in above-reference toxicity or benthic bioaccumulation of contaminants, that the discharge is predicted to result in above-reference toxicity or bioaccumulation of contaminants, or that further information is needed. Based on previous sampling and the lack of industrial activity at Wilson Harbor, further evaluation beyond Tier III is not expected.

After the sediment quality evaluation is complete, the results will be compared to threshold values for open-lake and riparian disposal. That is, the dredge material will be classified in accordance with the requirements of the NYSDEC to allow the selection of an appropriate management option. Class A sediments are those with no appreciable contamination and no toxicity to aquatic life, and open-lake disposal can proceed. Class B sediments are those with moderate contamination potential and chronic toxicity to aquatic life. For Class B sediments, some restrictions may be applied to accommodate open-lake disposal. Class C sediments are those sediments expected to be acutely toxic to aquatic biota, and disposal requirements may be quite stringent. When contaminant levels exceed Class C thresholds in one or more samples, open lake disposal will likely be precluded, and a confined upland disposal site would be needed.

The data and the data evaluation will be compiled into a summary report, appendices, and QC report for the record.

ENGINEERING AND BID DOCUMENTS

Once the sediment has been classified in accordance with the requirements of the NYSDEC, a Dredging and Sediment Disposal Management Plan (DSDMP) will be prepared to determine the parameters of the dredging operation.

Engineering documents including drawings and specifications will be prepared. Drawings of the disposal area, the harbor and areas to be dredged to include soundings, survey controls, typical dredging sections, pre and post-placement sediment topography in the disposal area, laydown areas and other features will be prepared. Based on the soundings and proposed limits of dredging, final sediment volumes will be computed. Any monitoring appropriate for the dredging and disposal process will be identified and indicated on the drawings and specifications.

Drawings and technical specifications for the bid documents will be prepared as described above. The bid forms will be prepared in a manner that helps assure a uniform arrangement of work items that will facilitate a comparison of bids. The bid form will identify the project and owner information, provide for the name and address of the firm submitting the bid and include spaces for the bidder to acknowledge receipt of the bidding documents and addenda (if any). The bid form will list and name all pay items, provide for estimated quantities, identify unit measures and provide blank spaces for the bidder to fill in all proposed prices. The bid documents will take on the form of a Project Manual in conformance with the requirements of the Construction Specifications Institute (CSI).

Technical Specifications will be keyed to the bid form, providing a detailed description of the work to be completed under each pay item and describing the measurement procedures and payment process for each item. Engineering support will include assistance in conducting an on-site pre-bid meeting and site tour, clarification of bidder's technical questions, issuing technical addendum as needed, and a review of bids received to help arrive at fair and comparable bid pricing.

Deliverables from this task include the engineering report, drawings, technical specifications, the Environmental Protection Plan, a Quality Control/Quality Assurance Plan and the Project Manual.

PERMIT APPLICATIONS AND PERMITS

Once the engineering and bid documents are available, these documents will be assembled and combined with select data and evaluations from the sampling and analysis tasks for the purpose of preparing applications for the necessary permits. The identified permits include the following:

- Section 404 Clean Water Act (USACE);
- Section 10 Rivers and Harbor Act (USACE);
- Section 401 Water Quality Certification (NYSDEC); and,
- Coastal Zone Management Program Consistency Concurrence (New York State Department of State).

The deliverables for this task include a summary narrative, Environmental Assessment Forms, the Joint Application form and others as required.

PROJECT MANAGEMENT PLAN

The technical tasks of the project will be carried out by a team organized and directed by Project Manager James A. Daigler, P.E. of Daigler Engineering, P.C. (DE). Mr. Daigler, P.E. will act as the primary contact with the regulators and the stakeholder group. Mr. Daigler will oversee the studies, sampling efforts, laboratory work and document preparation being completed by the team and is ultimately responsible for the successful completion of the project. Mr. Daigler will also be responsible for ensuring all identified tasks are completed within the schedule and budget presented in this Scope of Work, and will certify the documents produced at DE by affixing his NYSPE seal to the drawings and reports.

To help confirm the design and supporting documents are consistent with the requirements of the regulations and approved documents, Mr. Daigler will maintain a continuing dialogue with

regulators and stakeholders. As well, routine progress updates (via conference call) will be issued throughout the project. In this manner, it is anticipated that any feedback will be incorporated into the work efforts on a continuing basis.

BUDGET ESTIMATE

The budget for the work was estimated based on a detailed assessment of the project requirements as established by review of the regulations and guidance documents applicable to the work, and historic costs for similar activities. An outline of the sampling and analysis plan was reviewed by the USACE who determined that the outline appeared to "meet all of our needs". Qualified analytical laboratories reviewed the analytical requirements of the project, and they provided detailed cost proposals for the lab work. Application requirements were determined based on experience with previous projects. The drawings and reports developed during the most recent dredging operation were reviewed to assist in developing the scope of work.

A detailed cost breakdown summarizing the work tasks for the entire project and including the level of effort, responsible personnel and expenses is included in the attachments. The subheadings in the cost breakdown are tied to the above referenced scope of work.

All costs are realistic and necessary for completion of the project based on past dredging efforts and as demonstrated by review of the estimates for specific and comparable tasks provided by the USACE to the stakeholder group at a May 16, 2012 meeting regarding this project. The exception to this is the $35,000 estimated cost of sediment sampling and analysis presented by the Corps. The current estimate of $75,305 is significantly greater as a result additional sampling and testing included in this program, as follows:

- Additional two sediment samples;
- Elutriate testing included with the current program as now required by the USACE;
- Dioxin/furan, mirex, BTEX and benzene analysis required by the NYSDEC, but not the USACE; and,

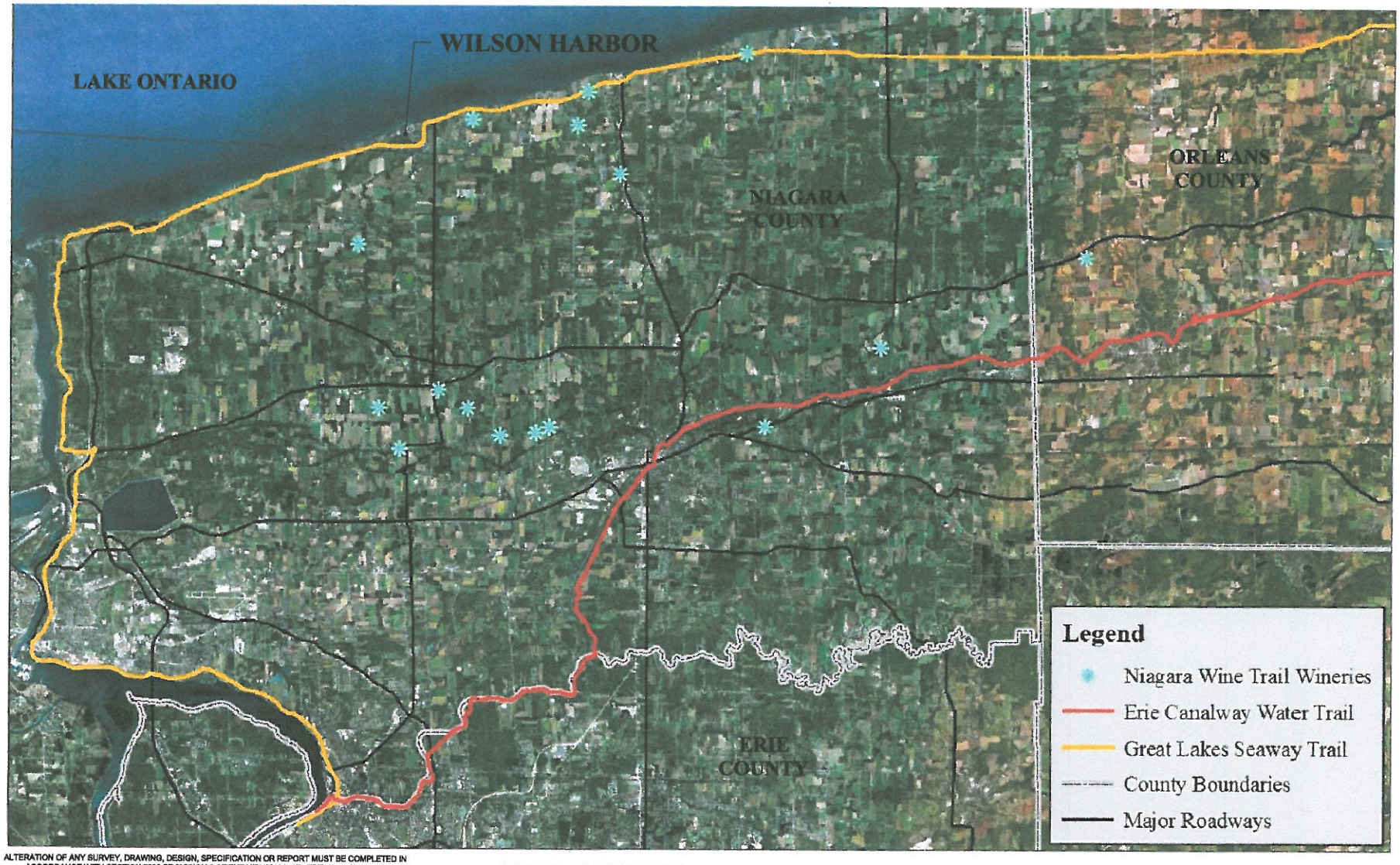
- Tier III whole sediment bioassay testing, if required as described above.

Additional task work not identified by the USACE to the stakeholder group includes the preparation of the final Sediment Sampling and Analysis Plan and the data analysis and sediment characterization report.

TIMELINE

The timeline in the attachments identifies the logical progression of the key project tasks, milestone events and the itemized cost of each task.

FIGURES



NO.	REVISION	BY	DATE

DAIGLER ENGINEERING P.C.
engineering · science · design
1711 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
JAMES A. DAIGLER, P.E. NYSPE NO. 081889

DATE: JUNE 2012

SCALE: 1"=15,000'

PREPARED FOR:			WILSON HARBOR DREDGING INITIATIVE REGIONAL PLAN	FIGURE 1
DES. BY: AMZ	DRW. BY: AMZ	CHK. BY:		
DWG:			TOWN AND VILLAGE OF WILSON	NIAGARA, ERIE, & ORLEANS COUNTIES	NEW YORK

NO.	REVISION	BY	DATE

DAIGLER ENGINEERING P.C.
engineering · science · design
1711 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
JAMES A. DAIGLER, P.E. NYSPE NO. 081550

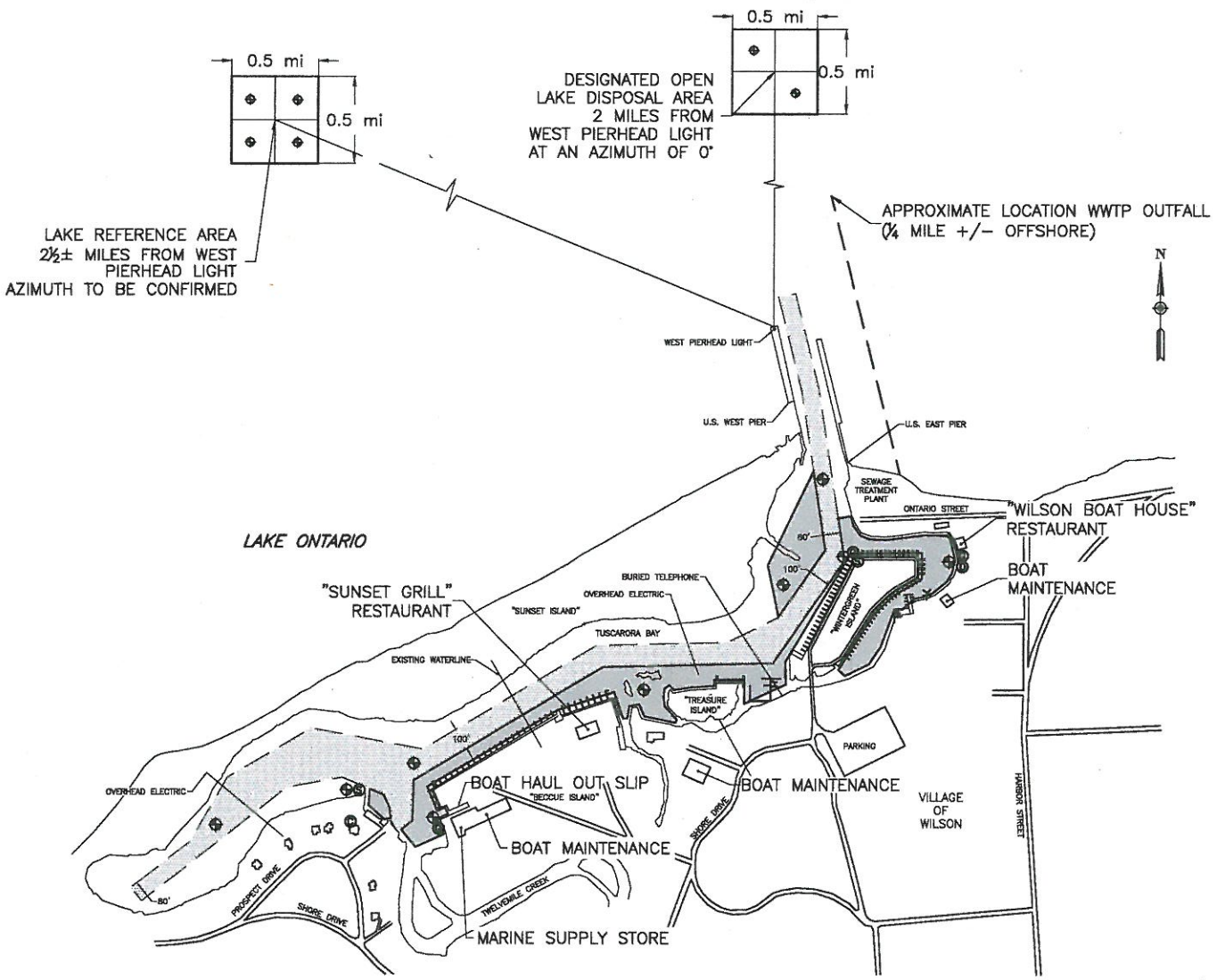
DATE: JUNE 2012

SCALE: 1"=550'

PREPARED FOR:			WILSON HARBOR DREDGING INITIATIVE VICINITY PLAN			FIGURE 2
DES. BY: AMZ	DRW. BY: AMZ	CHK. BY:				
DWG:			TOWN AND VILLAGE OF WILSON	NIAGARA COUNTY	NEW YORK	

LEGEND:

- Ⓖ GASOLINE FUELING POINT
- Ⓓ DIESEL FUELING POINT
- Ⓢ SANITARY PUMP OUT LOCATION
- Ⓒ CUSTOMS VIDEO PHONE
- PROPOSED SAMPLE LOCATION
- PROPOSED NEAR SHORE DREDGING
- PROPOSED CHANNEL DREDGING



Q:\Management – Administrative\Proposals\Wilson Harbor Dredging\AOAD\DREDGING PLAN.dwg 7/12/2012 2:40 PM

NO.	REVISION	BY	DATE

DAIGLER ENGINEERING P.C.
.....engineering · science · design .....
1711 GRAND ISLAND BLVD. GRAND ISLAND, NEW YORK 14072
JAMES A. DAIGLER, P.E. NYSPE NO. 081691

DATE: July 2012

SCALE: NOT TO SCALE

PREPARED FOR: XXXX			WILSON HARBOR DREDGING INITIATIVE SEDIMENT SAMPLING PLAN
DES. BY:	DRW. BY:	CHK. BY:	FIGURE 3
DWG: DREDGING PLAN.dwg	TOWN OF WILSON	NIAGARA COUNTY	NEW YORK

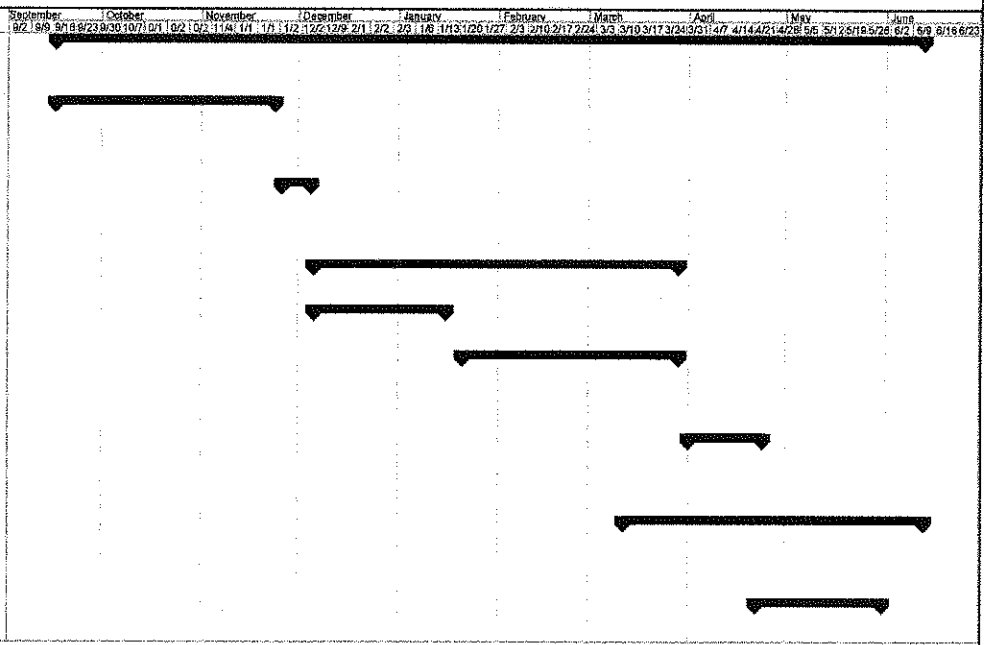
TIMELINE

WILSON HARBOR DREDGING INITIATIVE

GENERALIZED TIMELINE

July 2012

ID	Task Name	Cost
1	**TOTAL PROJECT**	**$174,992.00**
2	SEDIMENT SAMPLING AND ANALYSIS PLAN	$17,815.00
5		
9	SEDIMENT SAMPLING	$16,488.00
11		
12	LABORATORY TEST PROGRAM	$65,381.00
13	TIER II ANALYSIS	$51,440.00
18	TIER III ANALYSIS (if required)	$13,941.00
21		
22	ANALYZE DATA AND CHARACTERIZE SEDIMENT QUALITY	$12,732.00
26		
27	ENGINEERING AND BID DOCUMENTS	$49,434.00
29		
30	PERMIT APPLICATIONS	$13,142.00



TASK SUMMARY AND COST ESTIMATE

WILSON HARBOR DREDGING INITIATIVE
TASK SUMMARY AND COST ESTIMATE

Jul-12

	Senior Design Engineer (JAD) Rate = $105		Staff Design Engineer (DAL) Rate = $65		Design Draftsman (TPP) Rate = $65		Project Engineer Rate = $55		Senior Environmental Scientist Rate = $100		Technician JA Rate = $35		General Expenses (5% of Labor)	Misc. Expenses	SUBTOTAL
SEDIMENT SAMPLING, LAB ANALYSIS AND CHARACTERIZATION	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee			
Confirm extent of dredging	2	$210		$0	4	$260	6	$330		$0		$0	$40	$100	**$940**
Sampling history		$0		$0		$0	6	$330	2	$200		$0	$27		**$557**
Dredging history	2	$210		$0	2	$130	6	$330		$0		$0	$34		**$704**
Site resources and sensitivity	2	$210		$0	6	$390	6	$330	2	$200		$0	$57		**$1,187**
Confirm and summarize existing habitat/biota		$0	8	$520		$0	6	$330		$0		$0	$43		**$893**
Confirm potential pollutant sources/contamination history															
Record of Spills		$0		$0		$0	6	$330		$0		$0	$17	$100	**$447**
Current/past outfalls		$0		$0	2	$130	6	$330		$0		$0	$23		**$483**
Maps, etc.		$0		$0	4	$260	12	$660		$0		$0	$46		**$966**
Prepare final sampling/analytical plan and SOPs															
appropriate and applicable regulations/guidance		$0		$0		$0	12	$660	2	$200		$0	$43		**$903**
finalize type and number of samples		$0		$0		$0	10	$550	2	$200		$0	$38		**$788**
confirm sampling equipment		$0		$0		$0	8	$440		$0		$0	$22		**$462**
water quality standards		$0		$0		$0	16	$880	4	$400		$0	$64		**$1,344**
update methods and document laboratory qualifications		$0		$0		$0	4	$220	2	$200		$0	$21		**$441**
confirm biological testing/test requirements		$0		$0		$0	2	$110	4	$400		$0	$26		**$536**
health and safety requirements		$0		$0		$0	12	$660	4	$400		$0	$53		**$1,113**
meet with Corps/confirm final plan		$0		$0		$0	8	$440	6	$600		$0	$52		**$1,092**
Finalize plan and update cost	8	$840		$0		$0	8	$440	2	$200		$0	$74	$300	**$1,854**
Quality Assurance Project Plan (QAPP)		$0		$0		$0	32	$1,760	12	$1,200		$0	$148		**$3,108**
Mobilize sampling equipment		$0		$0	24	$1,560		$0		$0		$0	$78	$2,500	**$4,138**
Barge/Boat Rental		$0		$0		$0		$0		$0		$0	$0		**$0**
Complete sampling event	12	$1,260		$0	32	$2,080	32	$1,760		$0		$0	$255	$400	**$5,755**
Prepare and Ship samples		$0		$0	12	$780		$0		$0		$0	$39	$1,500	**$2,319**
Lab Analysis															
Geotechnical testing															**$2,184**
Sediment testing															**$22,745**
Water testing															**$2,752**
Elutriate testing															**$23,759**
Bioassay testing															**$9,828**
Controls															**$2,288**
Tissue															**$1,591**
Terracore kits															**$234**
Review sediment chemistry/prepare evaluation		$0		$0		$0	12	$660	4	$400		$0	$53		**$1,113**
Review Lake water chemistry/prepare evaluation		$0		$0		$0	12	$660	4	$400		$0	$53		**$1,113**
Review elutriate chemistry/prepare evaluation		$0		$0		$0	12	$660	4	$400		$0	$53		**$1,113**
Establish dredged material classification	4	$420		$0		$0	4	$220		$0		$0	$32		**$672**
Determine need for additional sampling/analysis	4	$420		$0		$0	4	$220		$0		$0	$32		**$672**
Prepare report and appendices	6	$630		$0		$0	48	$2,640	8	$800		$0	$204		**$4,274**
QC Report	12	$1,260		$0		$0		$0	8	$800		$0	$103		**$2,163**
Produce Report and recommendations	8	$840		$0		$0		$0		$0	8	$280	$56	$300	**$1,476**
Communications		$0		$0	2	$130		$0		$0		$0	$7		**$137**
Contingency @10%															**$4,276**
Task Subtotal	**60**	**$6,300**	**8**	**$520**	**88**	**$5,720**	**290**	**$15,950**	**70**	**$7,000**	**8**	**$280**	**$1,789**	**$5,200**	**$112,415**

	Senior Design Engineer (JAD) Rate = $105		Staff Design Engineer (DAL) Rate = $65		Design Draftsman (TPP) Rate = $65		Project Engineer Rate = $55		Senior Environmental Scientist Rate = $100		Technician JA Rate = $35		General Expenses (5% of Labor)	Misc. Expenses	SUBTOTAL
ENGINEERING AND BID DOCUMENTS	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee			
$49,434															
Prepare Dredging and Sediment Disposal Management Plan	4	$420		$0		$0	24	$1,320		$0		$0	$87		**$1,827**
Determine dredging technology based on sediment class	2	$210		$0		$0	12	$660		$0		$0	$44		**$914**
Determine water management options based on sediment class	2	$210		$0		$0	16	$880		$0		$0	$55		**$1,145**
Determine one foot bottom contours for disposal area	10	$1,050		$0	24	$1,560	24	$1,320		$0		$0	$197	$2,000	**$6,127**
Determine flow rates in dredging area		$0		$0		$0	6	$330		$0		$0	$17		**$347**
Establish methods to minimize resuspension and migration of sediments		$0		$0		$0	8	$440		$0		$0	$22		**$462**
Mixing zone analysis and limits	8	$840		$0		$0	24	$1,320		$0		$0	$108	$2,000	**$4,268**
Prepare base mapping/water depths existing	2	$210		$0	16	$1,040	6	$330		$0		$0	$79		**$1,659**
Identify extent of regulated freshwater wetlands		$0	8	$520		$0	2	$110		$0		$0	$32		**$662**
Identify submerged resources , utilities or obstacles		$0		$0	8	$520		$0		$0		$0	$26		**$546**
Prepare dredging area plan/proposed water depths	2	$210		$0	12	$780	4	$220		$0		$0	$61		**$1,271**
Locate water quality control devices		$0		$0	8	$520	2	$110		$0		$0	$32		**$662**
Locate mooring area for dredging vessels		$0		$0	8	$520	2	$110		$0		$0	$32		**$662**
Review soundings and compute dredge volume	2	$210		$0	10	$650	4	$220		$0		$0	$54		**$1,134**
Identify mean high and mean low water level		$0		$0	2	$130	2	$110		$0		$0	$12		**$252**
Prepare typical dredging section in channel		$0		$0	8	$520	6	$330		$0		$0	$43		**$893**
Prepare typical section at docks		$0		$0	8	$520	2	$110		$0		$0	$32		**$662**
Prepare other typical sections	2	$210		$0	6	$390	2	$110		$0		$0	$36		**$746**
Locate disposal area		$0		$0		$0	2	$110		$0		$0	$6		**$116**
Summarize volumes of material		$0		$0	12	$780	4	$220		$0		$0	$50		**$1,050**
Show monitoring points of compliance		$0		$0	2	$130	8	$440		$0		$0	$29		**$598**
Details		$0		$0	16	$1,040	8	$440		$0		$0	$74		**$1,554**
Drawings	16	$1,680		$0	32	$2,080		$0		$0		$0	$188		**$3,948**
Report	4	$420		$0		$0	8	$440		$0		$0	$43		**$903**
Technical Specifications	16	$1,680		$0	12	$780	40	$2,200		$0		$0	$233		**$4,893**
Environmental Protection Plan	12	$1,260		$0	12	$780	40	$2,200		$0		$0	$212		**$4,452**
QA/QC Plan	12	$1,260		$0	12	$780	32	$1,760		$0		$0	$190		**$3,990**
Project Manual	16	$1,680		$0	8	$520	24	$1,320		$0		$0	$176		**$3,696**
Communications		$0		$0		$0		$0		$0		$0	$0		**$0**
Task Subtotal	**110**	**$11,550**	**8**	**$520**	**216**	**$14,040**	**312**	**$17,160**	**0**	**$0**	**0**	**$0**	**$2,164**	**$4,000**	**$49,434**

	Senior Design Engineer (JAD) Rate = $105		Staff Design Engineer (DAL) Rate = $65		Design Draftsman (TPP) Rate = $65		Project Engineer Rate = $55		Senior Environmental Scientist Rate = $100		Technician JA Rate = $35		General Expenses (5% of Labor)	Misc. Expenses	SUBTOTAL
	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee			
PERMIT APPLICATIONS															
$13,142															
US ARMY CORPS CWA Section 404 and RHA Section 10		$0		$0		$0		$0		$0		$0	$0		**$0**
Joint Application Form		$0		$0		$0	8	$440		$0		$0	$22		**$462**
Corps jurisdictional determination		$0		$0		$0		$0		$0		$0	$0		**$0**
Pre-application meeting		$0		$0		$0		$0		$0		$0	$0		**$0**
Prepare environmental impact assessment		$0		$0		$0	16	$880		$0		$0	$44		**$924**
Application Report and attachments	8	$840		$0	12	$780	24	$1,320		$0		$0	$147	$200	**$3,287**
Public Notice/Hearing		$0		$0		$0	12	$660		$0		$0	$33		**$693**
Issue Individual Permits		$0		$0		$0		$0		$0		$0	$0		**$0**
NYSDEC CWA Section 401 WQC, 608 and 663		$0		$0		$0		$0		$0		$0	$0		**$0**
Environmental Assessment Form		$0		$0		$0	16	$880		$0		$0	$44		**$924**
Anti degradation review		$0		$0		$0	16	$880		$0		$0	$44		**$924**
Application Report and attachments	8	$840		$0	16	$1,040	16	$880		$0		$0	$138	$200	**$3,098**
NEW YORK STATE DEPARTMENT OF STATE CZMA CONCURRENCE															
Summarize New York CMP Policies		$0		$0		$0	16	$880		$0		$0	$44		**$924**
Prepare consistency certification		$0		$0		$0	8	$440		$0		$0	$22		**$462**
Summarize NYSDOS conditions and incorporate	8	$840		$0		$0	8	$440		$0		$0	$64	$100	**$1,444**
Communications		$0		$0		$0		$0		$0		$0	$0		**$0**
Task Subtotal	**24**	**$2,520**	**0**	**$0**	**0**	**$0**	**32**	**$1,760**	**0**	**$0**	**0**	**$0**	**$602**	**$500**	**$13,142**
Miscellaneous Communications		**$0**	**0**	**$0**		**$0**		**$0**		**$0**		**$0**	**$0**		**$0**
PROJECT TOTAL	**170**	**$17,850**	**16**	**$1,040**	**304**	**$19,760**	**602**	**$33,110**	**70**	**$7,000**	**8**	**$280**	**$3,952**	**$9,200**	**$174,992**

LABORATORY TESTING PROGRAM BREAKDOWN

	Unit Cost	# of Samples	Lab Cost	Markup @ 4%			
Geotechnical testing	$140.00	15	$2,100.00	$2,184.00			
Sediment testing	$1,458.00	15	$21,870.00	$22,744.80		Tier II	$51,673
Water testing	$1,323.00	2	$2,646.00	$2,751.84			
Elutriate testing	$1,523.00	15	$22,845.00	$23,758.80			
Bioassay testing	$4,725.00	2	$9,450.00	$9,828.00	bioassay	$12,116	
Controls	$2,200.00	1	$2,200.00	$2,288.00			
Tissue	$153.00	10	$1,530.00	$1,591.20		Tier III	$13,707
Terracore kits	$15.00	15	$225.00	$234.00			
			$62,866.00	$65,380.64			$65,381

COMMITTEE ON RULES
RANKING MEMBER

WASHINGTON OFFICE:
2469 RAYBURN BUILDING
WASHINGTON, D.C. 20515-3221
(202) 225-3615

DISTRICT OFFICES:

3120 FEDERAL BUILDING
100 STATE STREET
ROCHESTER, NY 14614
(585) 232-4850

465 MAIN STREET, SUITE 105
BUFFALO, NY 14203
(716) 853-5813

640 PARK PLACE
NIAGARA FALLS, NY 14301
(716) 282-1274

WEBSITE: http://www.louise.house.gov

LOUISE M. SLAUGHTER
CONGRESS OF THE UNITED STATES
28TH DISTRICT, NEW YORK

July 19, 2012

Joseph Jastrzemski
Town of Wilson Supervisor
375 Lake Street, PO Box 537
Wilson, NY 14172

Dear Mr. Jastrzemski,

I am pleased to write in support of the grant application submitted by the Town of Wilson for funding from the Niagara River Greenway program for the dredging of Wilson Harbor. Throughout my career in Congress, I have actively worked to secure funding to dredge and maintain the ports and harbors in my district. For example, in May 2005, I secured a $175,000 funding earmark to restore and reinforce the western pier at Wilson Harbor. Also, in 2008, I secured almost $1.5 million to allow the Port of Rochester to be dredged.

I am also a cosponsor of H.R. 3648, the Harbor Fairness Act. This legislation requires that expenditures for maintenance dredging are equitably allocated among all eligible commercial harbors. Specifically, it requires 40 percent of all HMT revenue be spent on maintenance dredging at midsize and small commercial harbors. While I realize that Wilson's harbor is a shallow draft recreational harbor and not a commercial harbor, this legislation is critical to ensuring that the federal government maintains harbors of all sizes throughout the United States.

The project presented by the Town of Wilson to Niagara River Greenway is essential to the health and safety of a vital waterway in our community. Once again, I am pleased to write in full support of your application.

Sincerely,

Louise M. Slaughter

Louise M. Slaughter
Member of Congress

THE LEGISLATURE
NIAGARA COUNTY

LEGISLATOR DAVID E GODFREY
10TH DISTRICT

10 July 2012

To Whom It May Concern:

Please accept this letter as my formal support for the Town of Wilson's applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

Having lived in Wilson for over 30 years, I can honestly say that Wilson's harbor is one of the nicest harbors on the south shore of Lake Ontario, in fact it is the largest naturally protected harbor on the south shore. This beautiful harbor draws tens of thousands of boaters and fishermen from around the world every year, and our local residence not only enjoy all its services, but take great pride in keeping it well kept and attractive.

Recognizing that the Wilson harbor is a "harbor of refuge", and also an International Port of Entry, it is essential to keep its channels open. Currently many boats are having difficulty reaching fuel, maintenance and pump-out facilities, and US Customs point, or they don't even attempt to enter the harbor at all

Like all small towns across the county, the Town of Wilson government has a responsibility to help maintain and enhance its' community's appearance, financial health, and safety for all those who frequent its' streets, shops, and harbor.

I am confident the Town of Wilson officials will utilize this grant funding in a responsible and effectual manner for the overall good of the people, the businesses, and many visitors to our harbor and water front.

If you have any questions or require further information, please contact me directly by phone at 716-751-9606 or via email at David.Godfrey@NiagaraCounty.com.

Sincerely,

David E. Godfrey

175 HAWLEY STREET LOCKPORT, NEW YORK 14094 (716) 439-7000

VICE PRESIDENT PRO TEMPORE
CHAIRMAN
[illegible]
COMMITTEE MEMBER
[illegible]
[illegible]
ENVIRONMENTAL CONSERVATION
HIGHER EDUCATION
RULES
TRANSPORTATION

THE SENATE
STATE OF NEW YORK

GEORGE D. MAZIARZ
Senator, 62nd District

ALBANY OFFICE:
ROOM 308
LEGISLATIVE OFFICE BUILDING
ALBANY, NY 12247
(518) 455-2811
FAX: (518) 426-6987

DISTRICT OFFICE:
[illegible]
SUITE 6
LOCKPORT, NY 14094
(716) 434-9639
FAX: (716) 434-5297

E-MAIL ADDRESS:
maziarz@nysenate.gov

July 6, 2012

Supervisor Joseph Jastrzemski
Town of Wilson
PO Box 537
375 Lake St.
Wilson, NY 14172

Dear Supervisor Jastrzemski:

I am delighted to offer this letter of support on behalf of the Town of Wilson's application for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants. As Wilson's representative in the State Senate, I am familiar with its needs and its great potential to benefit from this funding.

The Wilson Harbor is home to over 500 boats, with over 2000 launches per season. It has however been over 12 years since the harbor has been dredged, despite the Corps of Engineers recommendation for it to be done every 3-5. The boats that are in Wilson are having trouble reaching fuel, maintenance and pump-out facilities because of the need for improvements and because of these problems, the local Marinas are losing business annually. The funding that would be provided through these grants would help the livelihood and sustainability of multiple businesses in Wilson, and would attract more visitors to the area. It is estimated that sportfishing has a $30 million regional economic impact, where a single fishing tournament can have a $300,000 impact alone. By awarding this grant, it would provide Wilson the much needed revitalization to ensure longevity of the community while affording them the opportunity to obtain the benefit of the economic impact.

Thank you very much for this opportunity to express my full support for your community's Harbor application. I wish you the best of success, and please do not hesitate to contact me whenever I can be of any further assistance to you.

Sincerely,

George D. Maziarz
Senator, 62nd District

GDM:kda

Historic Village of Wilson
On the Shores of Lake Ontario
375 Lake Street
Wilson, NY 14172

Dear Supervisor Jastrzemski,

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

As we are all aware, the beautiful harbor in Wilson is a natural resource. The harbor not only provides access to the fabulous fishing and boating waters of Lake Ontario, it provides recreation and tourism to the area as well as .

Fishing and charter tours make up a great deal of the harbor's activity. While Niagara University estimated sport fishing has a $30 million regional economic impact, a single fishing tournament has been estimated to have a $300,000 impact on the eastern end of the harbor alone. The conditions of the harbor greatly impact the livelihood and sustainability of multiple businesses.

Wilson Harbor is home to over 500 boats 75% of which are 25' or more in length and Tuscarora State Park reports 2000+ launches per season.

Sailboats are currently running aground during traditional high water summer weeks and last year power boats were running aground in end-of-season conditions The Sunset Bay Marina has lost 20% of seasonal slip rentals over the past two years due to low water conditions, and estimates loss of end-of-season maintenance work to be approaching $100-200,000 year. This is a matter of life and property. Wilson is categorized as a "harbor of refuge" but all boats are having difficulty reaching fuel, maintenance and pump-out facilities due to the current conditions. Infrastructure upgrades are needed to attract more "stop and go" visitors.

The time to act now in order to conduct sediment samples, and apply for permits so this dire condition can be corrected in 2013. It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years.

The Village of Wilson whole-hearted supports the Town of Wilson in your application for the grant funding to revitalize and maintain the Wilson Harbor and your stewardship of our beautiful harbor.

Respectfully submitted,

Bernie Leiker

Deputy Mayor, Village of Wilson NY

THE ASSEMBLY
STATE OF NEW YORK
ALBANY

JANE CORWIN
Assemblywoman 142nd District
Vice-Chairwoman Minority Conference
Chairwoman Assembly Minority Review Committee

RANKING MINORITY MEMBER
Corporations, Authorities and Commissions Committee
House Operations Committee

COMMITTEES
Cities
Education
Environmental Conservation
Mental Health

July 12, 2012

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake Street
PO Box 537
Wilson, NY 14172-5037

Dear Supervisor Jastrzemski:

I am writing in support of the Town of Wilson consolidated funding grant applications for the maintenance and revitalization of the Wilson Harbor, both from New York State and Niagara County. Please feel free to submit this letter with your grant application to any State or County agency.

As you know, the Wilson Harbor holds great economic and historical value to the town of Wilson and the preservation and improvement to the harbor is very important to the residents of not only Wilson, but of all Western New York.

Many small locally owned businesses are located near the harbor. State grant funding will be an investment in the revitalization of the harbor in addition to an investment in the local economy and small business. The Wilson Harbor is a destination for fishermen across the Northeastern United States and a Niagara University study has estimated that sport fishing has a $30 million regional economic impact. A single fishing tournament has been estimated to have a $300,000 impact on the eastern end of the harbor alone.

In recent years, the harbor has faced difficult issues with the fluctuating water levels of Lake Ontario. While the Army Corps of Engineers recommends dredging every 3 to 5 years, it has been over 12 years since the harbor has been dredged. The Sunset Bay Marina alone has lost over 20% of season slip rentals over the past two years due to low water conditions, and estimates the end of season maintenance to approach $200,000 this year.

ALBANY OFFICE: Room 721, Legislative Office Building, Albany, New York 12248 • 518-455-4601 • FAX: 518-455-5257
DISTRICT OFFICE: 8180 Main Street, Clarence, New York 14221 • 716-839-4691 • FAX: 716-839-4693
E-MAIL: corwinj@assembly.state.ny.us

I am sure that anyone would agree that the Town of Wilson is not only deserving, but in need of State and County assistance to preserve and revitalize this economic and historic treasure, that is a regional destination and a key component to the community's economic prosperity and growth.

I will respectfully request on the Town of Wilson's behalf, that every consideration is given to the grant application for maintenance and revitalization funding that is submitted to any State Agency.

If I can be of any further assistance or answer any question that you may have, please do not hesitate to contact my office.

Sincerely,

Jane L. Corwin
Member of Assembly
142nd District

SUNSET BAY MARINA
6 O'CONNELL ISLAND – WILSON, NY 14172
716-751-6466

July 16, 2012

I am writing from Sunset Bay Marina in regards to having our harbor dredged out as soon as possible.

We already this year, because of the water levels, have had to turn away many sail boaters. The water levels continue to drop making many of our slips unusable this year. We usually generate a lot of business with Canadian boaters, but this year we have been unable to accommodate many of them. The state park where the customs phone is located is at the end of the harbor and it is getting increasingly difficult to have boats with bigger drafts make it there to call in. The Canadians have been a growing part of our business here in Wilson. Many stay for long weekends, going out to the restaurants, shopping in town. They have also been coming over to have work done at our maintenance shop and some also stay and store their boats over the winter. If these boaters find they are unable to make it into the harbor, many will not return.

We also have had many boaters coming into the shop with damage to their boats when they hit coming into the harbor. The buoys have been moved so close at the one point that it makes boating very tricky out by the pier. If they are moved much closer, many boaters will not be able to make it out of or into the harbor.

We really need to have something done asap with this harbor before this harbor becomes totally inaccessible. We have lost boaters that have moved on to areas that can accommodate them. Slip rental this year is down about 25%. Transient boater numbers are down about the same.

Sincerely,

Thomas Brigham
Owner

Tuscarora Yacht Club
P.O. Box 826
Wilson, New York 14172

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
PO Box 537
Wilson, NY 14172-0537

Dear Supervisor Jastrzemski,

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

The Tuscarora Yacht club is asking that every effort be made to have the Wilson Harbor dredged. Currently the Tuscarora Yacht Club has over 200 members and has the capability to dock approximately 155 boats. As of late we have approximately 15 un-usable docks due to the inability of boats getting to these docks because of the silting that has occurred in the federal channel and surrounding area. We are in desperate need of dredging in the Wilson Harbor as we are losing dock spaces and membership every year which is having an economic impact on the Tuscarora Yacht Club and it's survivability. The Tuscarora Yacht Club is dependent on having members and every dock occupied with boats to have enough revenue to pay our lease and to maintain the Club and the property upon which it sits. Each year it is getting more and more difficult to get new members and retain existing members due to losing the depth in the harbor and under the docks. Every day we see boats that come into the harbor run aground in the federal channel. We have had many members leave us because the federal channel is not deep enough to accommodate their vessels. Another issue is as we lose the depth of the federal channel it is also affecting the depth under the docks to the point that we have boats bouncing off the bottom and causing damage to them. If we continue in this downward spiral in membership and losing docking members because of the depths in the harbor the Tuscarora Yacht Club will not exist as we know it today.

It is imperative that dredging takes place now in the Wilson Harbor. If this dredging does not take place soon it will be the demise of the Wilson Harbor, its visitors, its residences and the boating community. There will be many impacts to the local area along with the boating community. In the harbor we see thousands of boaters each year both local and visiting from the U.S. and Canada that use us and various other yacht clubs and marina's looking for temporary dockage on a continual basis throughout the year. Please be mindful that there is a major impact on the economy in Wilson from the boating community and visiting yachtsmen.

Some of the economies derived from the boating community as well as surrounding businesses - there is revenue from taxes on goods purchased in the harbor and surrounding areas to include

the Village of Wilson, creation and maintaining jobs in the harbor, recreational activities from locals and visitors that have economic impacts, sport fishing that brings in sport fisherman from the local area and other states for fishing competitions, income to local shop owners and restaurants and needless to say the jobs that they create. Direct spending by visiting yachts and the crews of boats involved in events such as regattas. There is Indirect spending by those businesses providing goods and services to the businesses in the harbor and the Village of Wilson. Leisure and tourism people in turn consuming goods and services. Induced demand for goods and services from the spending of additional salaries earned through job creation in the harbor and town.

As you know there are many, many more impacts as I have only named a few that have and will have an effect on the economy in the area. Therefore the Tuscarora Yacht Club is in full support of your efforts to get funds to dredge the Wilson Harbor.

Respectively,

Peter R. Fleckenstein
Commodore,
Tuscarora Yacht Club

WILSON BOAT WORKS
5 O'CONNELL ISLAND – WILSON, NY 14172
716-597-8348

July 16, 2012

I am writing from Wilson Boat Works in Wilson, NY. We are a maintenance shop located at Sunset Bay Marina in Wilson Harbor. Our concerns have to do with keeping our business afloat in this area.

With the water levels, many boaters are having more problems with boating this year. We have had many boats run aground coming into or leaving the harbor. The markers have been moving closer together every year and with the one red buoy almost to the other side, many boaters (even the seasoned ones) have been finding it harder & harder to stay on the correct side.

We have a large number of people who purchase new/used boats and have them delivered to our shop for launching. These numbers are drastically being reduced. With the water levels, we have to be very careful on what we launch, so they do not get stuck in the harbor.

With the water levels so low, and with this years heat, the growth in the water is coming up quicker than ever. Many boaters, because of this, are experiencing more zebra mussel problems than ever before.

While this seems like it should be good for our business, in the long run our business can only grow if the boaters can make it into the harbor. Dredging needs to be addressed asap to help all of the businesses in the area to keep going.

Thank you,

Charles Gauvreau
owner

July14, 2012

Kevin Jerge
Wilson Boatyard Marina
61 Harbor St
Wilson NY 14172

Joseph Jastrzemski, Supervisor
Town of Wilson
375 Lake Street, PO Box 537
Wilson, NY 14172

Dear Supervisor Jastrzemski,

In support of our Marina we are hoping there is soon a solution to our low water problems in the form of the dredging of all navigable waterways inside Wilson Harbor. Please count on us for any and all support we can provide for the immediate action.

As a privately held small business nestled in the eastern basin of the harbor we share our water way with TYC (a predominantly sail yacht club). As of late we have ceased taking reservations from sail vessels due to the low water concerns of our basin and harbor. Still further we have many large slips we can only use for power vessels during times of high water. We have estimated in the late summer our business is impacted by up to 30 percent.

With our Harbor functioning as the closest full service stop on the US side much of our business is derived from our neighbors to the north. We are the Gateway to the US so to speak for all foreign vessels traveling in the Western Basin. As owner operator of the only working fuel dock it is easy to see how once again allowing deep draft vessels access would impact our business in a positive way.

This is further realized at Sunset Bay Marina as they operate the only working travel lift within Wilson Harbor. In their case they are silted in so badly that they are limited in the size of vessels they service. Still further their haul out schedule is affected by the time of year and how much water Montreal is taking to maintain the shipping channels hundreds of miles away.

Wilson Harbor currently has the only video phone for miles. This allows both US and Canadian boaters alike to report in as required when visiting or returning to the US mainland. With the phone positioned at the extreme end of the Harbor (State Park) it requires every vessel to navigate the full length of the harbor.

Sport fishing is a huge draw for Wilson Harbor as well. As director of the Wilson Harbor Invitational and advisor for the Niagara County Pro Am these tournaments have an economic impact of over 200k each. As we play host to hundreds of visiting anglers and boats water levels play an important role in how many docks are able to be used. This past spring during what are usually high water levels we lost 10 percent of our slips due to low water.

With events, expansion, and improvement often in the works years in advance it is essential to get things on the road to recovery ASAP. We are nearing a point of no return as most boaters being creatures of habit return to the same places year after year they will soon be finding new destinations due to our situation. Feel free to contact me at any time with regards to the above. You have our full support moving forward.

Sincerely,

Kevin Jerge

July 11, 2012

Lisa A. Stephens, Commodore
Wilson Yacht Club, Inc.
PO Box 428
Wilson, NY 14172-0240

Joseph Jastrzemski, Supervisor
Town of Wilson
375 Lake Street, PO Box 537
Wilson, NY 14172

Dear Supervisor Jastrzemski,

On behalf of the Wilson Yacht Club (WYC), I write to encourage in the strongest possible terms our support for any and all efforts leading to the immediate dredging of Wilson Harbor.

WYC is the only privately owned and operated yacht club in Wilson. Our bylaws mandate a portion of membership dues be allocated each year to a fund designed primarily to pay for dredging access to the federal channel at every available opportunity. It has long been past practice for the US Army Corp of Engineers (USACE) to award a contract to dredge the channel, with the surrounding marinas, clubs and private residents using DEC maintenance permits to "hitch our wagon" to the federal effort. You can't have one without the other – it's a model of a successful public-private partnership.

Absent predictable timetables for USACE dredging, the regional economy ($30 million dollar sport fishing impact alone) is steadily eroding. Sunset Bay marina estimates the current annual loss of end-of-season Canadian business at $100-200,000. We've lost 20% of the marina sailboats over the past two years due to low water conditions. We are experiencing increasing difficulty accessing launch areas, waste management and fuel as the harbor silts in. Boaters who would normally end their season in October or November for the past several years are forced to haul-out in August and September (taking discretionary recreational dollars with them).

While area restaurants and entertainment continue to build Wilson's reputation as a boater "destination of choice" it must also serve as a critical International Harbor of Refuge. Evidence: a 54' Canadian powerboat sought shelter early November 2011 after striking a rock. A licensed captain literally ran aground inside the marked channel and private boats that *should* have been able to come to his aid were already hauled because of low water. The unknown variable of the International Joint Commission proposed BV7 water level management, by their own data projections, will dramatically increase the frequency of high and low water swings, exacerbating the challenge. Dredging will help mitigate this.

All current and future harbor development efforts hinge on proper sediment testing and lab work in order to gain the necessary permits. We're literally stuck until this testing is complete, and nobody can plan for future investment without the resulting report to guide the bidding. Let's get moving on this effort to increase traffic to make better use of the walking, kayaking and boating trail access to area businesses and recreation – before it takes years to recover from a reputation across the lake as, "don't bother with Wilson, you can't get in."

Sincerely,

Lisa A. Stephens, Commodore

CLARK MARINA
1 SHORE DRIVE
WILSON, NEW YORK 14172

July 12, 2012

Supervisor Jastrzemski
P.O. Box 537
Wilson, New York 14172

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. Due to low water conditions, the seasonal slip rentals over the past two years have decreased by 20%.

The revitalization of Wilson Harbor is of the utmost importance. The livelihood and sustainability of multiple businesses depends on the maintenance and revitalization of Wilson Harbor.

Sincerely,

Steven Clark
President

SC:kb

David F Clark
19 Shore Drive
Wilson, New York 14172

July 12, 2012

Supervisor Jastrzemski
P.O. Box 537
Wilson, New York 14172

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. Due to low water conditions, the seasonal slip rentals over the past two years have decreased by 20%.

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Sincerely,

David F. Clark

DFC:kb

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
PO Box 537
Wilson, NY 14172-0537

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. This is about the livelihood and sustainability of multiple businesses, not about a small group of recreational boaters. Niagara University estimated sport fishing has a $30 million regional economic impact.

Sunset Bay Marina has lost 20% of seasonal slip rentals over the past two years due to low water conditions, and estimates loss of end-of-season maintenance work to be approaching $100-200,000 year. A single fishing tournament has been estimated to have a $300,000 impact on the eastern end of the harbor alone. Sailboats are currently running aground during traditional high water summer weeks, last year power boats were running aground in end-of-season conditions. This is a matter of life and property. Wilson is categorized as a "harbor of refuge" but all boats are having difficulty reaching fuel, maintenance and pump-out facilities.

We need to act now in order to conduct sediment samples, and apply for permits so this dire condition can be corrected in 2013. We need to improve day-dock or mooring access as part of improvements. Infrastructure upgrades are needed to attract more "stop and go" visitors. Wilson Harbor is home to over 500 boats 75% of which are 25' or more in length. Tuscarora reports 2000+ launches per season.

Any grants available for this project should be applied for and utilized in any way possible.

Thank you for your attention in the matter.

Regards,

Jeanine M Johnson
Corp Sec

Jeanine Johnson
Myers Accounting Servuice
PO Box 919
284 Young St
Wilson, NY 14172
7/2/2012

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
PO Box 537
Wilson, NY 14172-0537

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. This is about the livelihood and sustainability of multiple businesses, not about a small group of recreational boaters. Niagara University estimated sport fishing has a $30 million regional economic impact.

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Any grants available for this project should be applied for and utilized in any way possible.

Thank you for your attention in the matter.

Regards,

James J. O'Donnell III
Village Resident
Owner: Fighting Irish Rentals, Inc.
Wilson Auto Repair, Inc.

PO Box 336
Wilson, NY 14172
7/2/12

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
PO Box 537
Wilson, NY 14172-0537

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. This is about the livelihood and sustainability of multiple businesses, not about a small group of recreational boaters. Niagara University estimated sport fishing has a $30 million regional economic impact.

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We need to act now in order to conduct sediment samples, and apply for permits so this dire condition can be corrected in 2013. We need to improve day-dock or mooring access as part of improvements. Infrastructure upgrades are needed to attract more "stop and go" visitors. Wilson Harbor is home to over 500 boats 75% of which are 25' or more in length. Tuscarora reports 2000+ launches per season.

Any grants available for this project should be applied for and utilized in any way possible.

Thank you for your attention in the matter.

Regards,

Jeanine M Johnson

Jeanine Johnson
PO Box 183
326 McCheseney St
Wilson, NY 14172
7/2/2012

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
PO Box 537
Wilson, NY 14172-0537

Dear Supervisor Jastrzemski,

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

- It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years.
- This is about the livelihood and sustainability of multiple businesses, not about a small group of recreational boaters.
- Niagara University estimated sport fishing has a $30 million regional economic
- Sunset Bay Marina has lost 20% of seasonal slip rentals over the past two years due to low water conditions, and estimates loss of end-of-season maintenance work to be approaching $100-200,000 year.
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- This is a matter of life and property. Wilson is categorized as a "harbor of refuge" but all boats are having difficulty reaching fuel, maintenance and pump-out facilities.
- We need to act now in order to conduct sediment samples, and apply for permits so this dire condition can be corrected in 2013.
- We need to improve day-dock or mooring access as part of improvements.
- Infrastructure upgrades are needed to attract more "stop and go" visitors.
- Wilson Harbor is home to over 500 boats 75% of which are 25' or more in length.
- Tuscarora reports 2000+ launches per season.

Sincerely,

Betty E. Haag

Betty E. Haag,

Village of Wilson Resident

July 12, 2012

Sue Winch
53 Garland
Lyndonville, New York 14098

Dear Supervisor Jastrzemski:

I'm writing in support of the Town of Wilson applications for funding for the maintenance and revitalization of Wilson Harbor through New York State and Niagara County Grants.

It has been over 12 years since the harbor has been dredged, even though the Corps of Engineers recommends every 3-5 years. Due to low water conditions, the seasonal slip rentals over the past two years have decreased by 20%.

The revitalization of Wilson Harbor is of the utmost importance. The livelihood and sustainability of multiple businesses depends on the maintenance and revitalization of Wilson Harbor.

Sincerely,

Sue Winch

Sue Winch

SW:kb

July 13th, 2012

Supervisor Joseph Jastrzemski
Town of Wilson
375 Lake St.
Wilson, New York 14172-0537

Dear Supervisor Jastrzemski

I'm writing a letter in support of the Town of Wilson application for funding for the maintenance and revitalization of Wilson harbor through New York State and Niagara County Grants.

Having been a resident of the Village of Wilson all my life, I have seen the impact our harbor has had on the town and village of Wilson. Our harbor provides a great source of income for many businesses throughout Wilson in the sum of hundreds of thousands of dollars. The many fishing tournaments, hundreds of sail boats and the many Canadian boaters need a deep harbor to enter and exit. The harbor is one of the best protected harbors on Lake Ontario. It has not been dredged in over 12 yrs, Now is the time to dredge before the harbor becomes impassable.

Sincerely,

Gary S. Pettit

TESTAMERICA LABORATORY PROGRAM

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238

Tel: (412) 963-7058
Fax: (412) 963-2468
www.testamericainc.com

July 12, 2012

James Daigler
Daigler Engineering , PC
1711 Grand Island Blvd
Grand Island, NY 14072
jim@jadenvegr.com
Tel: (716) 773-6872

July 11, 2012

James Daigler
1711 Grand Island Blvd Grand Island, NY 14072

Subject: Tier III Evaluation
TestAmerica Quote Number: 18010224

Dear James Daigler:

On behalf of TestAmerica Laboratories, Inc., we are pleased to present our proposal for analytical services in support of Tier III Evaluation.

TestAmerica Pittsburgh is one of TestAmerica's Sediment and Tissue Laboratory Centers of Excellence. TestAmerica Pittsburgh participated in the development and has implemented our 'Programmatic Minimum Standards' for sediment and tissue projects to address the sample handling and matrix concerns inherent to these projects. Our ' Minimum Standards' systematically addresses TestAmerica sediment and tissue laboratories processes to handle samples with very high moisture content, sample pre-treatment, the use of organic cleanup procedures as well as support from our experienced, senior sediment project managers.

TestAmerica typically employs low level methodologies in an attempt to reach project required detection limits and to overcome high moisture corrections associated with sediment. In some instances we have suggested alternative methods or more recent updates.

The project will be done as per standard laboratory SOP's and LQM and not per DOD QSM.

If the work is awarded to TestAmerica, it is suggested that a project kickoff call is placed in order to discuss logistics, and to discuss components critical to program success.

The cost for 8290A Dioxins/Furans includes the totals as well as the individual dioxins. Should the totals not be needed the cost can be reduced by $50 (to $675 for sediments and $625 for waters). TEQs are included in the

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238

Prepared for:
James Daigler
Daigler Engineering , PC
1711 Grand Island Blvd
Grand Island, NY 14072
jim@jadenvegr.com
Tel: (716) 773-6872

Prepared by	Gamber, Carrie L
Date	7/12/2012
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Project: Tier III Evaluation *Quote Number: 18010224 - 1*

dioxin costs. Upon award the TEQ calculation criteria will need to be verified. TestAmerica Knoxville is certified for method 8290A for the state of New York.

The cost of return shipping to the laboratory is not included in this quote.

Due to the limited sample volume anticipated for the tissue samples, only the metals have been quoted. If additional sample volume becomes available additional analyses can be added.

We appreciate your consideration of our services and look forward to a beneficial relationship between our companies. If you have any questions or need additional information please feel free contact me.

Sincerely,

Carrie Gamber
Customer Service Manager

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238

Prepared for:

James Daigler
Daigler Engineering , PC
1711 Grand Island Blvd
Grand Island, NY 14072
jim@jadenvegr.com
Tel: (716) 773-6872

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Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Quote Deliverables

Deliverable: Equ_Nysdecv5.5 (UDS) EQuIS, Nysdec, v5.5
Type: Edd **TurnAround:** 15_Days

Company	Locations	Name	Mechanism	Media	Time	Copies
Cash in Advance (Buffalo)	Daigler Engineering , PC	James Daigler	Mail	CD	After Complete	1

Deliverable: STD Invoice Format Standard Invoice Format
Type: Invoice **TurnAround:** 15_Days

Company	Locations	Name	Mechanism	Media	Time	Copies
Cash in Advance / Prepaid Sales	North Canton, OH	James Daigler	Mail	Paper	After Invoice	1

Deliverable: Std_Tal_L4_Package_Mini Standard TAL, Level 4, Package, Mini
Type: Report **TurnAround:** 15_Days

Company	Locations	Name	Mechanism	Media	Time	Copies
Cash in Advance (Buffalo)	Daigler Engineering , PC	James Daigler	Mail	Pdf	After Complete	1

Deliverable: Std_Tal_Login_Ack Standard TAL, Login, Checklist, Acknowledgement
Type: SampConf **TurnAround:** 15_Days

Company	Locations	Name	Mechanism	Media	Time	Copies
Cash in Advance (Buffalo)	Daigler Engineering , PC	James Daigler	Email	Pdf	After Login	1

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Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Sediment **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	8270D LL (3541)	Project PAH list by GC/MS -Low Level	1	$ 160.00	$ 160.00
Sedime	8082A (3541)	TCL PCBs Low Level	1	$ 75.00	$ 75.00
Sedime	8081B_LL (3541 - 3640A)	Project Pesticides Low Level	1	$ 90.00	$ 90.00
Sedime	3640A	Gel-Permeation Cleanup	1	$ 20.00	$ 20.00
Sedime	6020A (3050B)	Project Metals by ICP/MS	1	$ 85.00	$ 85.00
Sedime	7471B (7471B)	Mercury	1	$ 20.00	$ 20.00
Sedime	Lloyd Kahn	Organic Carbon, Total (TOC)	1	$ 70.00	$ 70.00
Sedime	9012B (9012B)	Cyanide	1	$ 22.00	$ 22.00
Sedime	350.1 (Distill/Ammonia)	Nitrogen, Ammonia	1	$ 22.00	$ 22.00
Sedime	9071B (9071B)	HEM (Oil and Grease)	1	$ 55.00	$ 55.00
Sedime	8260B (5035)	BTEX analysis only	1	$ 50.00	$ 50.00
Sedime	8260B (5035)	BTEX analysis only, methanol	0	$ 50.00	$ 0.00

Sediment **TAT: 1_Day (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	Moisture	Percent Moisture	1	$ 8.00	$ 8.00

Sediment **TAT: 15_Days (Business Days)** **(to be analyzed by Knoxville)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	8290	8290A, Dioxins/Furans including totals and TEQs	1	$ 725.00	$ 725.00

Sediment **TAT: 20_Days (Business Days)** **(to be analyzed by Burlington)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	D422	Grain Size % Passing Routine List	1	$ 0.00	$ 0.00
Sedime	D422	Grain Size Classification in %	1	$ 100.00	$ 100.00

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Sediment **TAT: 15_Days (Business Days)** **(to be analyzed by Burlington)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	D854	Specific Gravity	1	$ 40.00	$ 40.00

Sediment **TAT: 15_Days (Business Days)** **(to be analyzed by Canton)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	SM 4500 Norg C (SM4500Norg_C)	Nitrogen-Total Kjeldahl	1	$ 28.00	$ 28.00
Sedime	SM 4500 P E (365.2/365.3/365)	Phosphorus	1	$ 28.00	$ 28.00
		Total Sediment			**$ 1,598.00**

Water **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	8270D LL (3520C)	Project PAH list by GC/MS -Low Level	1	$ 160.00	$ 160.00
Water	8082A (3510C)	TCL PCBs Low Level	1	$ 75.00	$ 75.00
Water	8081B_LL (3510C)	Project Pesticides Low Level	1	$ 90.00	$ 90.00
Water	6020A (3010A)	Project Metals by ICP/MS	1	$ 85.00	$ 85.00
Water	7470A (7470A)	Mercury	1	$ 20.00	$ 20.00
Water	9060A	TOC - Quadruplicate	1	$ 28.00	$ 28.00
Water	9012B (9012B)	Cyanide	1	$ 22.00	$ 22.00
Water	350.1 (Distill/Ammonia)	Nitrogen, Ammonia	1	$ 22.00	$ 22.00
Water	1664A (1664A)	HEM (Oil and Grease)	1	$ 40.00	$ 40.00
Water	8260B (5030B)	BTEX only	1	$ 50.00	$ 50.00

Water **TAT: 15_Days (Business Days)** **(to be analyzed by Knoxville)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	8290	8290A, Dioxins/Furans including totals and TEQs	1	$ 675.00	$ 675.00

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Water **TAT: 15_Days (Business Days)** **(to be analyzed by Canton)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	SM 4500 Norg C (SM4500Norg_C)	Nitrogen-Total Kjeldahl	1	$ 28.00	$ 28.00
Water	SM 4500 P E (365.2/365.3/365)	Phosphorus	1	$ 28.00	$ 28.00
		Total Water			**$ 1,323.00**

Standard Elutriate Generation **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Sedime	SET	Standard Elutriate Test, Dissolved	1	$ 200.00	$ 200.00
		Total Standard Elutriate Generation			**$ 200.00**

Standard Elutriate **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	8270D LL (Filtration - 3520C)	Project PAH list by GC/MS -Low Level	1	$ 160.00	$ 160.00
Water	8082A (Filtration - 3510C)	TCL PCBs Low Level	1	$ 75.00	$ 75.00
Water	8081B_LL (Filtration - 3510C)	Project Pesticides Low Level	1	$ 90.00	$ 90.00
Water	6020A (Filtration - 3005A)	Project Metals by ICP/MS	1	$ 85.00	$ 85.00
Water	7470A (Filtration - 7470A)	Mercury	1	$ 20.00	$ 20.00
Water	9060A (Filtration)	DOC - Quadruplicate	1	$ 28.00	$ 28.00
Water	9012B (Filtration - 9012B)	Cyanide	1	$ 22.00	$ 22.00
Water	350.1 (Filtration - Distill/Ammonia)	Nitrogen, Ammonia	1	$ 22.00	$ 22.00
Water	1664A (Filtration - 1664A)	HEM (Oil and Grease)	1	$ 40.00	$ 40.00
Water	8260B (Filtration - 5030B)	BTEX only	1	$ 50.00	$ 50.00

Standard Elutriate **TAT: 15_Days (Business Days)** **(to be analyzed by Knoxville)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	8290	8290A, Dioxins/Furans including totals and TEQs	1	$ 675.00	$ 675.00

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Standard Elutriate **TAT: 15_Days (Business Days)** **(to be analyzed by Canton)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	SM 4500 Norg C (Filtration - SM4500Norg_C)	Nitrogen-Total Kjeldahl	1	$ 28.00	$ 28.00
Water	SM 4500 P E (Filtration - 365.2/365.3/365)	Phosphorus	1	$ 28.00	$ 28.00
		Total Standard Elutriate			**$ 1,323.00**

Tissue **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Tissue	6020A (Frozen Storage - In House - 3050B)	Project Metals by ICP/MS	1	$ 85.00	$ 85.00
Tissue	In House	Tissue Handling and Preparation	1	$ 40.00	$ 40.00
Tissue	7471B (Frozen Storage - In House - 7471B)	Mercury	1	$ 20.00	$ 20.00

Tissue **TAT: 1_Day (Business Days)**

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Tissue	Moisture	Percent Moisture	1	$ 8.00	$ 8.00
		Total Tissue			**$ 153.00**

Quote Other Charges

Description	Quantity	Unit Price	Extended Price
Terracore Kits/need 1 per sample	1	$ 15.00	$ 15.00
Total Other Charge			**$15.00**

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Total Other Charges	**$ 15.00**
Total Analysis Charges	**$ 4,597.00**
Grand Total for Quote 18010224	**$ 4,612.00**

**Quoted charges do not include sales tax. Applicable sales tax will be added to invoices where required by law.

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PROJECT DETAILS

Coolers and Supplies

TestAmerica will provide high quality sample containers and coolers to support analytical activities. Supplies may include a slight bottle excess (10%) in case of breakage. The cost of bottles and cooler usage is included in the analytical price quoted. TestAmerica expects that all coolers will be returned to a TestAmerica laboratory. TestAmerica further anticipates that approximately 70% or more of the containers supplied will be returned as samples. Coolers not received back by the projected deadline, or as arranged with the PM, may be charged at $30 per cooler. Similarly, if less than 70% of the containers provided are returned as samples, TestAmerica may charge for additional containers provided at a flat rate of $1 per container.

Courier Service and Sample Pick-up

Where Courier Service is offered by a TestAmerica facility, TestAmerica will pick up samples or drop off supplies during business hours, free of charge within a 40 mile radius of the facility for events that are a minimum of $200 of analytical services. Courier services must be arranged, at a minimum, 24 hours in advance. Courier services beyond those parameters outlined above are available at an additional cost. Please contact your PM to inquire about availability and cost.

Deliverables

Unless a level III or IV deliverable is specifically listed on the pricing page, this quotation only includes delivery of a Level II report. Level III or IV reports may be available at an additional charge.

Electronic Data Deliverables

TestAmerica has many EDD formats available to our clients including the most widely used commercial formats. TestAmerica also offers clients data in EDD format using the Standard TestAmerica EDD. All EDDs are available for a minimal cost of $25 per format or $10 for the Standard TestAmerica EDD.

Environmental Management Fee

If it is detailed in the Other Charges section of the pricing page, an Environmental Management Fee equal to the listed percentage of the total invoice amount will be applied to all work done under this quotation. The Fee will appear as a separate line item on each invoice. In the absence of any other firm pricing agreements, your sending work to us under this quotation will signify your acceptance of responsibility for payment of the Fee.

Expedited Turnaround Times

Expedited turnaround time may be available and must be pre-approved by the laboratory. Expedited turnaround delivery is contingent upon meeting the agreed upon delivery date/time and numbers of samples. TestAmerica's expedited turnaround time surcharges are:

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5 Business Days TAT =30%
3 Business Days TAT = 60%
48 Hours TAT = 75%
24 Hours TAT = 100%

The TAT clock are counted in business days, and results are considered due by COB on the date agreed upon. If specific timing of results prior to COB are required, please communicate this need to the Project Manager during time of set-up.

Footnotes

The text for any footnote flags shown on the quote pricing page is shown below:

- No footnotes were included -

Matrix Spike / Matrix Spike Duplicate

TestAmerica complies with the required frequencies for MS/MSD per batch. When MS/MSD are not specifically requested, TestAmerica will strive to perform the required QC using whatever available sample there is but will not report the QC results unless the client requests it specifically. Any requested MS/MSD will be charged at unit rates. If MS/MSD are required/requested, the client must provide additional sample volume.

Minimum Login Charge

TestAmerica's minimum charge for a group of samples received and logged in together is $200. Groups of samples received that require services totaling less than $200 will be charged a $200 minimum transaction charge for the sample group

Multiple Dilutions Analyzed

TestAmerica will report the analytical run containing the highest concentration component/analyte in the sample within the calibrated (quantifiable) range of the method. Analytical screening runs are not reported. The laboratory will generally not be able to attempt greater than 10-fold more concentrated analysis than the required dilution. Additional dilutions requested to be analyzed and reported can be provided at 50% of the analytical cost for "prepped" analyses and 70% of the analytical cost for all others. These additional dilutions will only be attempted if, in the opinion of the laboratory, they do not pose a risk to the instrumentation. Please contact your PM to inquire about the availability of this service for your particular project.

Multiple Report Copies

TestAmerica will provide two analytical report formats. The option is a hard copy report and a standard TestAmerica EDD or PDF report, or any combination of two of these three choices. The cost of this deliverable approach is included in the analytical cost. Client must specify which deliverables are required. Opting for only one deliverable will not prompt for a discount. Additional report copies or deliverables beyond the above described service can be provided subject to an associated fee. Data that requires retrieval from permanent storage may incur an additional archival charge. Please contact your PM to inquire about availability and cost of additional deliverables.

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Price Discounts Due to Sample Volume

TestAmerica prices may include a built in volume discount for larger sample projections. Such volume discounts are contingent upon receiving, at a minimum, 70% of the projected sample volume. The laboratory may withdraw volume discount prices when the minimum sample amounts are not delivered.

Sample Container Shipping

The containers and preservatives required by the project shall be delivered via ground transportation at no additional cost to the client. A minimum of 3 days advance notice is required in order to achieve shipment by ground transportation. Supply shipments requiring priority delivery due to insufficient lead time for ground transportation shall be charged to the client at TestAmerica's cost. Alternatively, TestAmerica can ship the supplies via carrier of choice by the client using the client's shipping account.

Sample Storage and Disposal

TestAmerica will dispose of samples, sample extracts and digestates, at no additional cost to clients, 30 days after the final report is issued. Storage of samples and containers beyond this time frame may be available for an additional fee. Additional storage time may be available under normal circumstances for a fee starting at $1 per container per month. Please contact your PM to inquire about availability and cost.

Terms and Conditions

This quotation is based solely upon TestAmerica's standard product (routine QA/QC, detection limits, deliverables and standard turnaround times) and noted exceptions herein. The discounts incorporated into the pricing are based upon the sample quantity, test method, and schedule quoted. Any deviations may impact pricing and/or the acceptance of work. Final acceptance of this work is contingent upon a mutually agreed Sample Delivery Schedule. All sales are subject to TestAmerica's Terms and Conditions unless alternative terms have been agreed to in writing. Submittal of samples will indicate acceptance of TestAmerica's Terms and Conditions and other requirements as set forth in this quotation.

Turnaround Time

Data will be delivered on the proposed due date by COB, with TATs counted in Business Days from Sample Receipt date, unless otherwise agreed upon.

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Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Sediment

Matrix	Method	Test Description	Analyte	RL	RL	Units
Sediment	Moisture	Percent Moisture	Percent Moisture	0.1	0.1	%

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	6020A (3050B)	Project Metals by ICP/MS	Arsenic	0.05	0.00905	mg/Kg
			Cadmium	0.05	0.0035	mg/Kg
			Barium	0.5	0.00535	mg/Kg
			Chromium	0.1	0.00305	mg/Kg
			Lead	0.05	0.0019	mg/Kg
			Selenium	0.25	0.0251	mg/Kg
			Silver	0.05	0.00195	mg/Kg
			Beryllium	0.05	0.00375	mg/Kg
			Thallium	0.05	0.001	mg/Kg
			Cobalt	0.025	0.00075	mg/Kg
			Antimony	0.1	0.0013	mg/Kg
			Nickel	0.05	0.00565	mg/Kg
			Zinc	0.25	0.0324	mg/Kg
			Copper	0.1	0.0165	mg/Kg
			Vanadium	0.05	0.00395	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	7471B (7471B)	Mercury	Mercury	0.0165	0.00545	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	9012B (9012B)	Cyanide	Cyanide, Total	0.25	0.0484	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	350.1 (Distill/Ammonia)	Nitrogen, Ammonia	Ammonia, distilled	5	2.2313	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	9071B (9071B)	HEM (Oil and Grease)	HEM	166.7	23.15	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	8270D LL (3541)	Project PAH list by GC/MS -Low Level	Anthracene	3.35	0.32635	ug/Kg
			Benzo[a]anthracene	3.35	0.418	ug/Kg
			Benzo[b]fluoranthene	3.35	0.5244	ug/Kg

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Sediment

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
			Benzo[k]fluoranthene	3.35	0.6743	ug/Kg
			Benzo[g,h,i]perylene	3.35	0.33185	ug/Kg
			Benzo[a]pyrene	3.35	0.33375	ug/Kg
			Chrysene	3.35	0.39715	ug/Kg
			Dibenz(a,h)anthracene	3.35	0.37105	ug/Kg
			Fluoranthene	3.35	0.3567	ug/Kg
			Fluorene	3.35	0.43965	ug/Kg
			Indeno[1,2,3-cd]pyrene	3.35	0.3437	ug/Kg
			Phenanthrene	3.35	0.5306	ug/Kg
			Pyrene	3.35	0.3373	ug/Kg
			Acenaphthene	3.35	0.3204	ug/Kg
			Acenaphthylene	3.35	0.38205	ug/Kg
			Naphthalene	3.35	0.2875	ug/Kg
			2-Methylnaphthalene	3.35	0.29995	ug/Kg
			Dibenzofuran	16.5	1.641	ug/Kg
		Surrogate Cpnd				
			Nitrobenzene-d5 (Surr)			
			2-Fluorobiphenyl			
			Terphenyl-d14 (Surr)			

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	SM 4500 Norg C (SM4500Norg_C)	Nitrogen-Total Kjeldahl	Nitrogen, Kjeldahl	150	51	mg/Kg

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Sediment	SM 4500 P E (365.2/365.3/365)	Phosphorus	Total Phosphorus as PO4	10	0.099	mg/Kg

Matrix	Method	Test Description	Analyte	NONE	NONE	Units
Sediment	D422	Grain Size % Passing Routine List	Sieve Size 3 inch - Percent Finer			
			Sieve Size 2 inch - Percent Finer			
			Sieve Size 1.5 inch - Percent Finer			
			Sieve Size 1 inch - Percent Finer			
			Sieve Size 0.75 inch - Percent Finer			
			Sieve Size 0.375 inch - Percent Finer			
			Sieve Size #4 - Percent Finer			
			Sieve Size #10 - Percent Finer			

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Sediment

Matrix	Method	Test Description	Analyte			
Continued				NONE	NONE	Units
			Sieve Size #20 - Percent Finer			
			Sieve Size #40 - Percent Finer			
			Sieve Size #60 - Percent Finer			
			Sieve Size #80 - Percent Finer			
			Sieve Size #100 - Percent Finer			
			Sieve Size #200 - Percent Finer			
			Hydrometer Reading 1 - Percent Finer			
			Hydrometer Reading 2 - Percent Finer			
			Hydrometer Reading 3 - Percent Finer			
			Hydrometer Reading 4 - Percent Finer			
			Hydrometer Reading 5 - Percent Finer			
			Hydrometer Reading 6 - Percent Finer			
			Hydrometer Reading 7 - Percent Finer			
				NONE	NONE	Units
Sediment	D422	Grain Size Classification in %	Gravel			
			Sand			
			Coarse Sand			
			Medium Sand			
			Fine Sand			
			Silt			
			Clay			
				NONE	NONE	Units
Sediment	D854	Specific Gravity	Specific Gravity			
			Specific Gravity at 20 deg Celsius			
				RL	MDL	Units
Sediment	8260B (5035)	BTEX analysis only	Benzene	5	0.6751	ug/Kg
			Toluene	5	0.7296	ug/Kg
			Ethylbenzene	5	0.6427	ug/Kg
			Xylenes, Total	15	2.2405	ug/Kg
		Surrogate Cpnd				

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Prepared by	Gamber, Carrie L
Date	7/12/2012
Expiration Date	10/10/2012
Est. Start Date	8/27/2012

Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Sediment

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued		**Surrogate Cpnd**				
			1,2-Dichloroethane-d4 (Surr)			
			Toluene-d8 (Surr)			
			4-Bromofluorobenzene (Surr)			
			Dibromofluoromethane (Surr)			
Sediment	8260B (5035)	BTEX analysis only, methanol	Benzene	250	49.47	ug/Kg
			Toluene	250	42.26	ug/Kg
			Ethylbenzene	250	31.01	ug/Kg
			Xylenes, Total	750	98.47	ug/Kg
		Surrogate Cpnd				
			1,2-Dichloroethane-d4 (Surr)			
			Toluene-d8 (Surr)			
			4-Bromofluorobenzene (Surr)			
			Dibromofluoromethane (Surr)			
Sediment	8082A (3541)	TCL PCBs Low Level	PCB-1016	0.41665	0.061976	ug/Kg
			PCB-1221	0.41665	0.079506	ug/Kg
			PCB-1232	0.41665	0.071334	ug/Kg
			PCB-1242	0.41665	0.067877	ug/Kg
			PCB-1248	0.41665	0.039404	ug/Kg
			PCB-1254	0.41665	0.059264	ug/Kg
			PCB-1260	0.41665	0.059236	ug/Kg
		Surrogate Cpnd				
			DCB Decachlorobiphenyl (Surr)			
			Tetrachloro-m-xylene			
Sediment	Lloyd Kahn	Organic Carbon, Total (TOC)	Total Organic Carbon - Duplicates	1000	88.72	mg/Kg
Sediment	8081B_LL (3541 - 3640A)	Project Pesticides Low Level	Aldrin	0.04165	0.00745	ug/Kg
			alpha-BHC	0.04165	0.0068	ug/Kg
			beta-BHC	0.04165	0.0108	ug/Kg
			delta-BHC	0.04165	0.0064	ug/Kg

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Sediment

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
			gamma-BHC (Lindane)	0.04165	0.0073	ug/Kg
			Chlordane (technical)	0.4165	0.01835	ug/Kg
			4,4'-DDD	0.04165	0.00545	ug/Kg
			4,4'-DDE	0.04165	0.0063	ug/Kg
			4,4'-DDT	0.04165	0.00625	ug/Kg
			Dieldrin	0.04165	0.00695	ug/Kg
			Endosulfan I	0.04165	0.00785	ug/Kg
			Endosulfan II	0.04165	0.00735	ug/Kg
			Endosulfan sulfate	0.04165	0.00435	ug/Kg
			Endrin	0.04165	0.0081	ug/Kg
			Endrin aldehyde	0.04165	0.0081	ug/Kg
			Heptachlor	0.04165	0.00925	ug/Kg
			Heptachlor epoxide	0.04165	0.0081	ug/Kg
			Methoxychlor	0.0833	0.0087	ug/Kg
			Toxaphene	1.6665	0.2782	ug/Kg
			Mirex	0.04165	0.00385	ug/Kg
		Surrogate Cpnd				
			Tetrachloro-m-xylene			
			DCB Decachlorobiphenyl (Surr)			

Water

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	8270D LL (3520C)	Project PAH list by GC/MS -Low Level	Anthracene	0.2	0.1511	ug/L
			Benzo[a]anthracene	0.2	0.0147	ug/L
			Benzo[b]fluoranthene	0.2	0.0157	ug/L
			Benzo[k]fluoranthene	0.2	0.0547	ug/L
			Benzo[g,h,i]perylene	0.2	0.0151	ug/L
			Benzo[a]pyrene	0.2	0.0134	ug/L
			Chrysene	0.2	0.014	ug/L
			Dibenz(a,h)anthracene	0.2	0.0155	ug/L
			Fluoranthene	0.2	0.0162	ug/L
			Fluorene	0.2	0.0216	ug/L
			Indeno[1,2,3-cd]pyrene	0.2	0.0199	ug/L
			Phenanthrene	0.2	0.0427	ug/L
			Pyrene	0.2	0.0157	ug/L
			Acenaphthene	0.2	0.0144	ug/L
			Acenaphthylene	0.2	0.0152	ug/L
			Naphthalene	0.2	0.014	ug/L

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Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Water

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
			2-Methylnaphthalene	0.2	0.0122	ug/L
			Dibenzofuran	1	0.0617	ug/L
		Surrogate Cpnd				
			Nitrobenzene-d5 (Surr)			
			2-Fluorobiphenyl			
			Terphenyl-d14 (Surr)			
Water	9060A	TOC - Quadruplicate	Total Organic Carbon - Quad	1	0.1885	mg/L
Water	9012B (9012B)	Cyanide	Cyanide, Total	10	1.5	ug/L
Water	350.1 (Distill/Ammonia)	Nitrogen, Ammonia	Ammonia, distilled	0.1	0.0328	mg/L
Water	1664A (1664A)	HEM (Oil and Grease)	HEM (Oil and Grease)	5	1.4986	mg/L
Water	SM 4500 Norg C (SM4500Norg_C)	Nitrogen-Total Kjeldahl	Nitrogen, Kjeldahl	5	2.5	mg/L
Water	SM 4500 P E (365.2/365.3/365)	Phosphorus	Total Phosphorus as PO4	0.1	0.033	mg/L
Water	8260B (5030B)	BTEX only	Benzene	1	0.1053	ug/L
			Ethylbenzene	1	0.2271	ug/L
			Toluene	1	0.1504	ug/L
			Xylenes, Total	3	0.4879	ug/L
		Surrogate Cpnd				
			1,2-Dichloroethane-d4 (Surr)			
			Toluene-d8 (Surr)			

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Water

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued		**Surrogate Cpnd**				
			4-Bromofluorobenzene (Surr)			
			Dibromofluoromethane (Surr)			
Water	6020A (3010A)	Project Metals by ICP/MS	Arsenic	1	0.2908	ug/L
			Cadmium	1	0.1144	ug/L
			Barium	10	0.098	ug/L
			Chromium	2	0.5433	ug/L
			Lead	1	0.0192	ug/L
			Selenium	5	0.4216	ug/L
			Silver	1	0.0362	ug/L
			Beryllium	1	0.0367	ug/L
			Thallium	1	0.0152	ug/L
			Cobalt	0.5	0.0263	ug/L
			Antimony	2	0.0187	ug/L
			Nickel	1	0.1749	ug/L
			Zinc	5	0.9609	ug/L
			Copper	2	0.2443	ug/L
			Vanadium	1	0.0824	ug/L
Water	7470A (7470A)	Mercury	Mercury	0.2	0.0384	ug/L
Water	8082A (3510C)	TCL PCBs Low Level	PCB-1016	0.01	0.002515	ug/L
			PCB-1221	0.01	0.00249	ug/L
			PCB-1232	0.01	0.002931	ug/L
			PCB-1242	0.01	0.001857	ug/L
			PCB-1248	0.01	0.002273	ug/L
			PCB-1254	0.01	0.002289	ug/L
			PCB-1260	0.01	0.001355	ug/L
		Surrogate Cpnd				
			DCB Decachlorobiphenyl (Surr)			
			Tetrachloro-m-xylene			
Water	8081B_LL (3510C)	Project Pesticides Low Level	Aldrin	0.0013	0.00083	ug/L
			alpha-BHC	0.0013	0.00066	ug/L

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Water

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
			beta-BHC	0.0013	0.001	ug/L
			delta-BHC	0.0013	0.00038	ug/L
			gamma-BHC (Lindane)	0.0013	0.0008	ug/L
			4,4'-DDD	0.0013	0.00067	ug/L
			Chlordane (technical)	0.0125	0.00165	ug/L
			4,4'-DDE	0.0013	0.00079	ug/L
			4,4'-DDT	0.0013	0.00074	ug/L
			Dieldrin	0.0013	0.00082	ug/L
			Endosulfan I	0.0013	0.00094	ug/L
			Endosulfan II	0.0013	0.00098	ug/L
			Endosulfan sulfate	0.0013	0.00057	ug/L
			Endrin	0.0013	0.00096	ug/L
			Endrin aldehyde	0.0013	0.0009	ug/L
			Heptachlor	0.0013	0.00099	ug/L
			Heptachlor epoxide	0.0013	0.00097	ug/L
			Methoxychlor	0.0025	0.00091	ug/L
			Toxaphene	0.1	0.01862	ug/L
			Mirex	0.0013	0.00048	ug/L
		Surrogate Cpnd				
			Tetrachloro-m-xylene			
			DCB Decachlorobiphenyl (Surr)			

Standard Elutriate Generation

Matrix	Method	Test Description	Analyte	NONE	NONE	Units
Sediment	SET	Standard Elutriate Test, Dissolved	Elutriate Generated			

Standard Elutriate

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	8270D LL (Filtration - 3520C)	Project PAH list by GC/MS -Low Level	Anthracene	0.2	0.1511	ug/L
			Benzo[a]anthracene	0.2	0.0147	ug/L
			Benzo[b]fluoranthene	0.2	0.0157	ug/L
			Benzo[k]fluoranthene	0.2	0.0547	ug/L
			Benzo[g,h,i]perylene	0.2	0.0151	ug/L
			Benzo[a]pyrene	0.2	0.0134	ug/L
			Chrysene	0.2	0.014	ug/L

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Standard Elutriate

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
			Dibenz(a,h)anthracene	0.2	0.0155	ug/L
			Fluoranthene	0.2	0.0162	ug/L
			Fluorene	0.2	0.0216	ug/L
			Indeno[1,2,3-cd]pyrene	0.2	0.0199	ug/L
			Phenanthrene	0.2	0.0427	ug/L
			Pyrene	0.2	0.0157	ug/L
			Acenaphthene	0.2	0.0144	ug/L
			Acenaphthylene	0.2	0.0152	ug/L
			Naphthalene	0.2	0.014	ug/L
			2-Methylnaphthalene	0.2	0.0122	ug/L
			Dibenzofuran	1	0.0617	ug/L
		Surrogate Cpnd				
			Nitrobenzene-d5 (Surr)			
			2-Fluorobiphenyl			
			Terphenyl-d14 (Surr)			

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	6020A (Filtration - 3005A)	Project Metals by ICP/MS	Arsenic	1	0.2908	ug/L
			Cadmium	1	0.1144	ug/L
			Barium	10	0.098	ug/L
			Chromium	2	0.5433	ug/L
			Lead	1	0.0192	ug/L
			Selenium	5	0.4216	ug/L
			Silver	1	0.0362	ug/L
			Beryllium	1	0.0367	ug/L
			Thallium	1	0.0152	ug/L
			Cobalt	0.5	0.0263	ug/L
			Antimony	2	0.0187	ug/L
			Nickel	1	0.1749	ug/L
			Zinc	5	0.9609	ug/L
			Copper	2	0.2443	ug/L
			Vanadium	1	0.0824	ug/L

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	7470A (Filtration - 7470A)	Mercury	Mercury	0.2	0.0384	ug/L

RL	MDL	Units

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Standard Elutriate

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
Water	9060A (Filtration)	DOC - Quadrupticate	Dissolved Inorganic Carbon - Quad	1	0.1401	mg/L
Water	9012B (Filtration - 9012B)	Cyanide	Cyanide, Total	10	1.5	ug/L
Water	350.1 (Filtration - Distill/Ammonia)	Nitrogen, Ammonia	Ammonia, distilled	0.1	0.0328	mg/L
Water	1664A (Filtration - 1664A)	HEM (Oil and Grease)	HEM (Oil and Grease)	5	1.4986	mg/L
Water	SM 4500 Norg C (Filtration - SM4500Norg_C)	Nitrogen-Total Kjeldahl	Nitrogen, Kjeldahl	5	2.5	mg/L
Water	SM 4500 P E (Filtration - 365.2/365.3/365)	Phosphorus	Total Phosphorus as PO4	0.1	0.033	mg/L
Water	8260B (Filtration - 5030B)	BTEX only	Benzene	1	0.1053	ug/L
			Ethylbenzene	1	0.2271	ug/L
			Toluene	1	0.1504	ug/L
			Xylenes, Total	3	0.4879	ug/L
		Surrogate Cpnd				
			1,2-Dichloroethane-d4 (Surr)			
			Toluene-d8 (Surr)			
			4-Bromofluorobenzene (Surr)			
			Dibromofluoromethane (Surr)			

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Standard Elutriate

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Continued						
Water	8082A (Filtration - 3510C)	TCL PCBs Low Level	PCB-1016	0.01	0.002515	ug/L
			PCB-1221	0.01	0.00249	ug/L
			PCB-1232	0.01	0.002931	ug/L
			PCB-1242	0.01	0.001857	ug/L
			PCB-1248	0.01	0.002273	ug/L
			PCB-1254	0.01	0.002289	ug/L
			PCB-1260	0.01	0.001355	ug/L
		Surrogate Cpnd				
			DCB Decachlorobiphenyl (Surr)			
			Tetrachloro-m-xylene			

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Water	8081B_LL (Filtration - 3510C)	Project Pesticides Low Level	Aldrin	0.0013	0.00083	ug/L
			alpha-BHC	0.0013	0.00066	ug/L
			beta-BHC	0.0013	0.001	ug/L
			delta-BHC	0.0013	0.00038	ug/L
			gamma-BHC (Lindane)	0.0013	0.0008	ug/L
			Chlordane (technical)	0.0125	0.00165	ug/L
			4,4'-DDD	0.0013	0.00067	ug/L
			4,4'-DDE	0.0013	0.00079	ug/L
			4,4'-DDT	0.0013	0.00074	ug/L
			Dieldrin	0.0013	0.00082	ug/L
			Endosulfan I	0.0013	0.00094	ug/L
			Endosulfan II	0.0013	0.00098	ug/L
			Endosulfan sulfate	0.0013	0.00057	ug/L
			Endrin	0.0013	0.00096	ug/L
			Endrin aldehyde	0.0013	0.0009	ug/L
			Heptachlor	0.0013	0.00099	ug/L
			Heptachlor epoxide	0.0013	0.00097	ug/L
			Methoxychlor	0.0025	0.00091	ug/L
			Toxaphene	0.1	0.01862	ug/L
			Mirex	0.0013	0.00048	ug/L
		Surrogate Cpnd				
			Tetrachloro-m-xylene			
			DCB Decachlorobiphenyl (Surr)			

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Project: Tier III Evaluation ***Quote Number: 18010224 - 1***

Tissue

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Tissue	6020A (Frozen Storage - In House - 3050B)	Project Metals by ICP/MS	Arsenic	0.1	0.0181	
			Barium	1.0	0.0107	
			Beryllium	0.1	0.0075	
			Cadmium	0.1	0.0070	
			Chromium	0.2	0.0061	
			Cobalt	0.05	0.0015	
			Copper	0.2	0.0330	
			Silver	0.1	0.0039	
			Nickel	0.1	0.0113	
			Lead	0.1	0.0038	
			Antimony	0.2	0.0026	
			Selenium	0.5	0.0502	
			Thallium	0.1	0.0020	
			Vanadium	0.1	0.0079	
			Zinc	0.5	0.0648	

Matrix	Method	Test Description	Analyte	RL	MDL	Units
Tissue	7471B (Frozen Storage - In House - 7471B)	Mercury	Mercury	0.033	0.0109	mg/Kg

Matrix	Method	Test Description	Analyte	RL	RL	Units
Tissue	Moisture	Percent Moisture	Percent Moisture	0.1	0.1	%

AQUATEC LABORATORY PROGRAM

Aquatec Biological Sciences

Ecology | Environmental Toxicology | Natural Resource Assessments | Microbiology

Cost Proposal for Wilson Harbor, Lake Ontario Sediment Assessment

Prepared by: AQUATEC BIOLOGICAL SCIENCES, INC., 273 Commerce Street, Williston, VT 05495
Prepared for DAIGLER ENGINEERING, 1711 Grand Island Blvd, Grand Island, NY 14072
Date: July 10, 2012

Proposed Analytical Methods for Tier 3 Biological Tests (analytical chemistry of sediment or tissues not included)

Tier 3 Procedure	*Test Method*	*Conditions*	*Price per sediment sample*[2]	*Requested per sample sediment volume (L)*
Tier 3 Elutriate Toxicity Testing[1]				
Elutriate Preparation for Acute Toxicity Tests	GLTM Appendix G Section 5.0	Mix 1 part site sediment with 4 parts site water or laboratory water. Mix 30 minutes, settle 1 hour, centrifuge the supernatant.	$50	3
Water flea *(Ceriodaphnia dubia* or *Daphnia magna)* 48-h acute toxicity test	GLTM Appendix G Section 6.0 or 7.0	5 laboratory replicates. 100% elutriate (pass/fail test) or 5 concentrations of elutriate. Static test, no renewal. Lab control included.	$295	N/A
Fathead minnow, *Pimpholes promelas* 96-h acute toxicity test	GLTM Appendix G Section 8.0	5 laboratory replicates. 100% elutriate (pass/fail) or 5 concentrations of elutriate. Static test, renewal on Day 2. Lab control included.	$395	N/A
Tier 3 Whole Sediment Toxicity Testing				
Midge, *Chironomus dilutus* (formerly *Chironomus tentans*) 10-day survival and growth	GLTM Appendix G Section 9.0 and US EPA Method 100.2	Minimum of 5 laboratory replicates, growth by dry wt. Laboratory control treatment included.	$695	2
Amphipod, *Hyalella azteca* 10-day survival and growth	GLTM Appendix G Section 10.0 and US EPA Method 100.1	Minimum of 5 laboratory replicates, growth by dry wt. Laboratory control treatment included.	$695	2
Tier 3 Bioaccumulation Testing				
Oligochaete, *Lumbriculus variegatus*, 28-day bioaccumulation	GLTM Appendix G Section 11.0 and US EPA Method 100.3	Up to 5 laboratory replicates with organism loading rate dependent on sediment TOC. Typically a nominal 5 g (wet weight) of biomass is loaded per replicate. Water-only depuration follows 28-d sediment exposure. Anticipated biomass recovery: 1-3 g (wet wt.) per replicate. Price does not include % lipid determination of test organisms or tissue residue chemistry.	$2,295	16
Oligochaete, *Lumbriculus variegatus*, 28-day bioaccumulation	GLTM Appendix G Section 11.0 and US EPA Method 100.3	Time 0 (background) organisms for tissue residue analysis (analysis not included)	$30 per replicate, up to 5 replicates of 5 g each.	N/A
Oligochaete, *Lumbriculus variegatus*, 28-day bioaccumulation		Ship tissues to selected chemistry laboratory	At cost	N/A
Supplies				
Coolers, sample containers (e.g., HDPE buckets and lids), blank Chain-of-Custody forms, temperature blank (1 per cooler)	US EPA/ASTM/GLTM	Ship all samples sealed in sample containers with containers nested in ice within each cooler. Target temperature range upon delivery is 0C - 6C.	Ground transport included. Express transport charged at shipper's rate.	N/A
Reports				
Standard report	Aquatec will generate three separate reports/data packages: 1 for the elutriate tests, 1 for the whole sediment toxicity tests, and 1 for the bioaccumulation tests.	Reports will included a cover letter, summary report, detail report (replicate data), narrative, copies of completed bench sheets, copies of statistical analysis printouts, copies of Chain-of-Custody documentation, and copies of standard reference toxicant control charts. Reports will be sent as a PDF by e-mail.	Included	N/A
Sample disposal				
		For any sample tested with Tier 3 biological tests.	Included	N/A
		For any samples where testing is cancelled	$125	N/A

[1] It appears that testing of only a single species is required by GLTM, however Aquatec recommends testing with two species (invertebrate and vertebrate) for the elutriate tests.

[2] If the proposed final scope of work differs substantially from the anticipated level of effort, Aquatec requests to have the opportunity to revise pricing accordingly.

GLTM: Great Lakes Testing and Evaluation Manual, Appendix G Biological Effects Testing Procedures

James A. Daigler

From: J Williams [jwilliams@aquatecb.com]
Sent: Monday, July 16, 2012 10:04 AM
To: James A. Daigler
Cc: Phil Downey
Subject: Re: costing

James,

Normally we charge for controls at the quoted sample rate for studies with less than 5 samples . To help your overall budget (assuming 2 samples tested), what we'd like to do is charge the controls at 50% of the per sample rate. This would result in the following charges for control treatments:

Elutriate Toxicity Tests
Water flea (*Ceriodaphnia dubia*) 48-h control: $150
Fathead minnow (*Pimephales promelas*) 96-h control: $200

10-day Whole sediment tests
Chironomus dilutus 10-day survival and growth control: $350
Hyalella azteca 10-day survival and growth control: $350

Bioaccumulation Test
Lumbriculus variegatus 28-day bioaccumulation test control: $1150

John
On Fri, Jul 13, 2012 at 6:35 AM, James A. Daigler <jim@jadenvegr.com> wrote:
John:

The Corps is looking at this now and had suggested that a reduction in samples may be appropriate to reduce cost. this might be for one hot spot and the disposal area. What if there are only two samples for bioassay testing. How would that affect your unit cost?

Jim

From: J Williams [mailto:jwilliams@aquatecb.com]
Sent: Thursday, July 12, 2012 2:41 PM

To: James A. Daigler
Subject: Re: costing

Approximately 8 weeks from the time of sample receipt would be required to complete the biological tests (including 28-day bioaccumulation) and reporting. This schedule does not include any chemistry laboratory time that would be required to analyze bioaccumulation tissues for target analytes.

If statistical analysis of tissue concentrations is required, Aquatec could perform the analysis of the residue data (provided to Aquatec by the chemistry laboratory), however this would be at a cost beyond what we have priced for the lab toxicity and bioaccumulation exposures and the pricing would